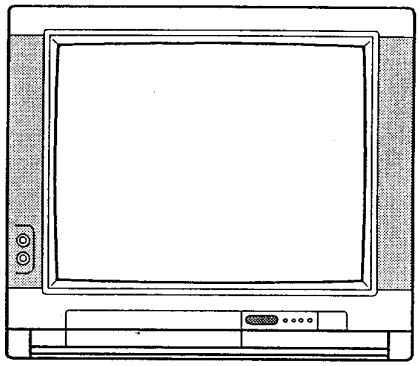
SHARP

SERVICE MANUAL
维修说明书

S42W625AK////



PAL/NTSC SYSTEM COLOUR TELEVISION
PAL/NTSC制式彩色电视机

Chassis No. A-200

MODEL 型号 **25A-K**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified should be used.

为了用户安全起见(根据一些国家的安全规程的需要)，应将电视机保持于最初的状态，而且只能使用与指定物相同的部件。

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WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis. To prevent electric shock, do not remove cover. No user — serviceable parts inside. Refer servicing to qualified service personnel.

警 告

该电视机底板的有些部分通电。当维修本机底板时，请在电源线插头和电源插座之间使用隔离变压器。
为了防止电击的危险，不要去拆下机盖。在里面的部件，不是使用者所能维修的，必须委托够格的维修人员来进行维修。

SHARP CORPORATION

ELECTRICAL SPECIFICATIONS

Power Input ..... 200 thru 240V AC 50/60Hz
Power Consumption 145W

Convergence ..... Self Converging System
Focus ..... Quadra-Potential Electrostatic
Sweep Deflection ..... Magnetic
Intermediate Frequencies
  Picture IF Carrier 38.9MHz
  Sound IF Carrier
    ● 6.5MHz 32.4MHz
    ● 6.0MHz 32.9MHz
    ● 5.5MHz 33.4MHz
  Colour Sub-Carrier ..... 34.47MHz (Nominal)

Audio Power Output Rating ... 7.0W × 2 (Max.)
Speaker
  Size ..... 12cm × 8cm Oval × 2 pcs
  Voice Coil Impedance ..... 8 ohms at 400 Hz

Aerial Input Impedance ... 75 ohm Unbalanced
Receiving Channels
  PAL-B/G
    VHF ..... E2 thru E12
    UHF ..... 21 thru 69
    CATV ..... S1 thru S20
  PAL-D/K
    VHF ..... (CHiNA): 1 thru 12
    UHF ..... (CHiNA): 13 thru 57
  PAL-I
    UHF ..... (H. K.): 21thru 69
Receiving Frequency
    VHF ..... 48.25 thru 295.25MHz
    UHF ..... 471.25 thru 863.25MHz

Specifications are subject to change without prior notice.

电路规格

电源输入……200～240V交流 50/60Hz
功率消耗…… 145W
聚焦……自聚焦系统
焦点……平方电位静电焦点
扫描偏转……磁致偏转
中频
  图象中间载频……38.9MHz
  声音中间载频
  ● 6.5MHz…… 32.4MHz
  ● 6.0MHz…… 32.9MHz
  ● 5.5MHz…… 33.4MHz
  彩色副载波……34.47MHz（额定值）
  音响额定输出功率……7.0W×2（最大值）
  扬声器
    尺寸……12×8cm椭圆×2个
    音圈阻抗…… 8Ω（400Hz时）

天线输入阻抗……75Ω非平衡式
接收频道
  PAL-B/G
    VHF（甚高频）……E2～E12频道
    UHF（超高频）……21～69频道
    CATV（有线闭路电视）……S1～S20频道
  PAL-D/K
    VHF（甚高频）……（中国）：1～12频道
    UHF（超高频）……（中国）：13～57频道
  PAL-I
    UHF（超高频）……（香港）：21～69频道
接收频率
    VHF（甚高频）……48.25～295.25MHz
    UHF（超高频）……471.25～863.25MHz

规格如有改变将不再预先通知。

IMPORTANT SERVICE NOTES

Maintenance and repair of this receiver should be done by qualified service personnel only.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove static charge from it by connecting a 10k ohm Resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead. (AC line cord should be disconnected from AC outlet.)

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.

X-RAY

This receiver is designed so that any X-Ray radiation is kept to an absolute minimum. Since certain malfunctions or servicing may produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed:

1. When repairing the circuit, be sure not to increase the high voltage to more than 30.0 kV, (at beam 0 mA) for the set.
2. To keep the set in a normal operation, be sure to make it function on 27.5 kV ± 1.5 kV (at beam 1.4 mA) in the case of the set.
   The set has been factory — Adjusted to the above-mentioned high voltage.
   ∴ If there is a possibility that the high voltage fluctuates as a result of the repairs, never forget to check for such high voltage after the work.
3. Do not substitute a picture tube with unauthorized types and/or brands which may cause excess X-ray radiation.

BEFORE RETURNING THE RECEIVER

Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators etc.

SERVICE ADJUSTMENT

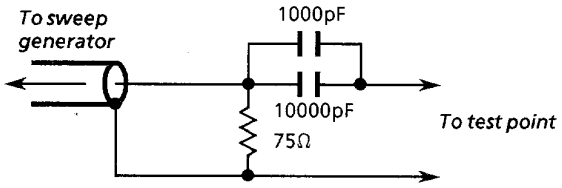
PIF/AFT/SIF/AGC ADJUSTMENT

Adjusting Conditions	Adjusting Procedures

1. Tuner IFT Coils

The tuner has been factory preset (no adjustment is needed).

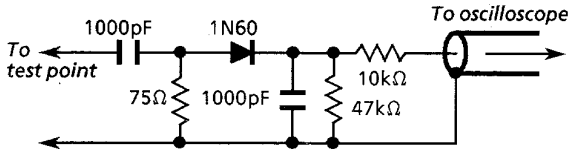
1. Set reception channel at E-12ch (When such signal is not available, set V_T voltage at 10V in V_H band).
2. Connect sweep generator's output to the test point of tuner, by using a 75Ω DC cut probe.



Connection Diagram of 75Ω DC Cut Probe.

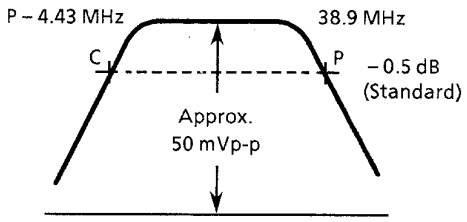
Note: The sweep generator's probe should be grounded closely to the tuner test point.

3. Output level of sweep generator: 80 dB
4. Connect response lead (low impedance probe with detector) to the collector of Q205.



Connection Diagram of Low Impedance Probe (with Detector).

1. PIF AGC:
   Apply DC 4.5V to pin (7) of IC801.
2. RF AGC:
   Apply 4.0V to the tuner AGC terminal.
3. Adjust the tuner IF coils to obtain the waveform as shown in the figure below.

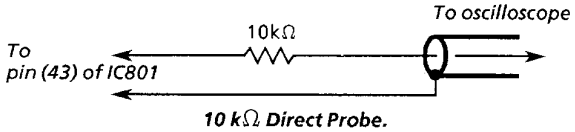


Adjust so that "P"and "C" are at the same level.

2. P-Detector Adjustment

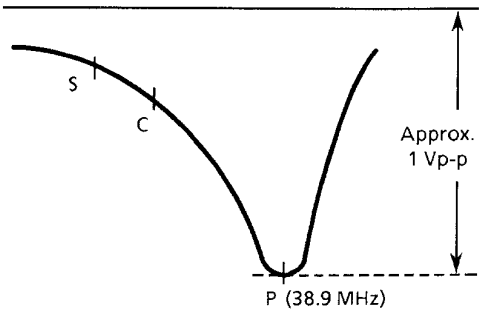
Adjusting Point
☐ **T202: P-Detector coil**

1. Connect sweep generator's output to pin (9) of IC801.
   - Probe in use: 75Ω DC cut probe
   - Sweep output level: 90 dB
2. PIF AGC:
   Apply 4.5V DC to pin (7) of IC801.
3. Have AFT muted.
   To do this, ground pin (47) of IC801 with a 10-kohm resistor in between.
4. Connect response lead to pin (43) of IC801.
   The response lead in use should be a direct probe with a resistor of 10k ohms included.



10 kΩ Direct Probe.

1. Adjust T202 so that 38.9MHz signal is at maximum (± 50 kHz).



* Adjust PIF AGC voltage so that the output waveform is of approx. 1 Vp-p.
(The PIF AGC voltage should be less than 9 V.)

PIF/AFT/SIF/AGC ADJUSTMENT (Continued)

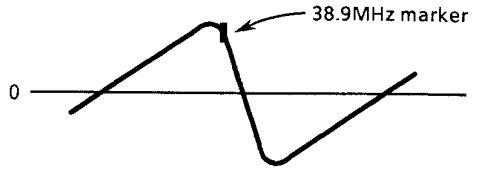
Adjusting Conditions	Adjusting Procedures

3-1. AFT Adjustment (Rough adjustment)

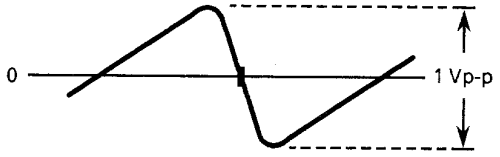
Adjusting Point
☐ **T203: AFT coil**

1. Connect sweep generator's output to pin (9) of IC801.
   - Probe in use: 75Ω DC cut probe
   - Sweep output level: 90 dB
2. PIF AGC
   Apply DC 4.5V to pin (7) of IC801.
3. Connect response lead to pin (48) of IC801 (AFT output).
   The response lead in use should be a direct probe with a resistor of 10 k ohms included.

1. Vary the DC voltage at pin (7) of IC801 so that the S curve amplitude becomes about 1 Vp-p.
2. Adjust T203 (AFT coil) so that the 38.9-MHz marker comes to the retrace line.



Waveform before adjustment



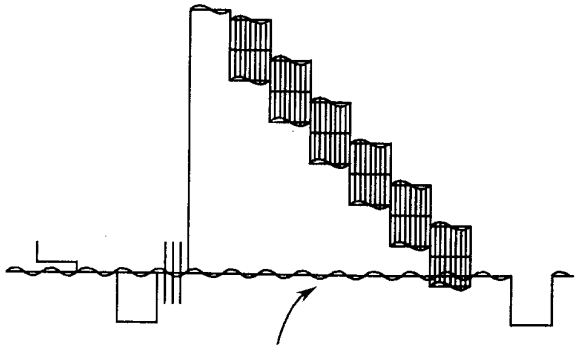
Waveform after rough adjustment

3-2. AFT Adjustment (Fine adjustment)

Adjusting Point
☐ **T203: AFT coil**

1. Receive "PAL COLOUR BAR" signal with color bar generator.
   - Signal strength: Over 55dBμV, Below 80dBμV
2. Connect oscilloscope to TP402.
   - Oscilloscope range: 0.5 V/div.
   - Sweep time: 20 μsec/div.
   - Synchronization: Horizontal sync.
3. Connect the output of SSG (Standard Signal Generator) to the tuner IF output terminal across a capacitor of 1pF.
   - SSG output frequency:
     38.9 MHz (CW) ± 5 kHz
   - SSG output level: approx. 50 dBμV

1. Set the preset switch at "VHF-H" position and adjust FINE TUNING button (Up or Down) of tuning control so that the output waveform suffers no beating.
2. Set the Preset button at NORMAL position.
3. Adjust T203 so that no beating is caused at the output waveform.
   - Adjustment error: 38.900MHz ± 25kHz

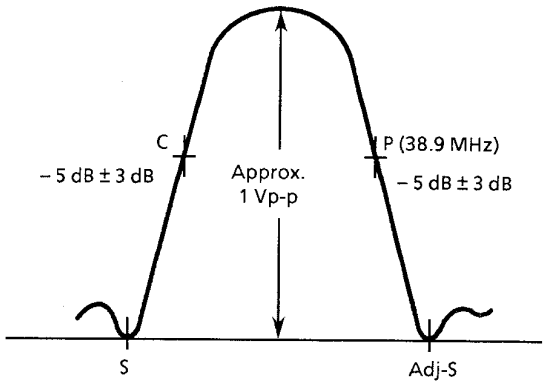


Finely adjust to make zero the beating

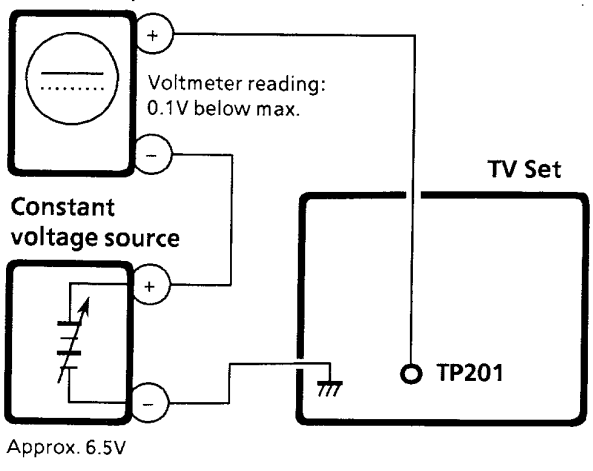
PIF/AFT/SIF/AGC ADJUSTMENT (Continued)

Adjusting Conditions	Adjusting Procedures

4. PIF Overall Adjustment

Adjusting Conditions	Adjusting Procedures
1. Receive channel E-12 signal. If channel E-12 signal is not available, Set V_T voltage at 10V in V_H band. 2. Connect sweep generator's output to the test point of tuner. • Probe in use: 75Ω DC cut probe • Sweep output level: 70 dB 3. Connect response lead to pin (43) of IC801. The response lead in use should be a direct probe with a resistor of 10 kohms included. 4. RF-AGC: Apply approx. 4.0V DC to the tuner AGC terminal. 5. PIF AGC: Apply approx. 4.5V DC to pin (7) of IC801. 6. Connect a 120 ohm damping resistor in parallel to R238. 7. Turn off AFT: AFT is turned off if pin (47) of IC801 is grounded.	1. Adjust IF AGC voltage so that the output waveform is of approx. 1 Vp-p. 2. Check that the overall waveform is as shown in Figure below. 

5. RF-AGC Cut-In Adjustment

Adjusting Conditions	Adjusting Procedures
Adjusting Point ☐ **R229: RF-AGC control** 1. Receive "PAL COLOUR BAR" signal. • Signal strength: 54 ± 1dBμV (with 75Ω open) ***Note: Adjust a 50-ohm field intensity meter to 52 to 53dBμV level if no 50/75 impedance transducer is used. Pay attention to a loss if using an impedance transducer.*** 2. Connect the oscilloscope or DC voltmeter to TP201.	1. Turn R229 to make the voltage highest. 2. Slowly turn R229 in the opposite direction until the voltage goes down 0.1V from the highest level. 3. Adjust the signal level to 63 to 67dBμV and make sure there is no noise. 4. Now adjust the signal level to 90 to 95dBμV and be sure that there is no cross modulation beat. **Oscilloscope or DC voltmeter** 

SOUND ADJUSTMENT

Adjusting Conditions	Adjusting Procedures

1. RF Sub-Sound Adjustment

Adjusting Point ☐ **R241: RF Sub-Sound control** 1. Receive the "PAL COLOUR BAR" signal. • Sound modulation: 400Hz, 100%. 2. Connect oscilloscope to Audio output terminal (RCA Terminal).	1. Adjust R240 so that the 400Hz sine waveform is 1.6 Vp-p. • Adjustment error: 1.6 ± 0.08 Vp-p. ***Note: Make sure that pin (1) of connector (KL) is grounded (0 V).***

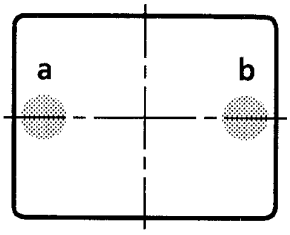
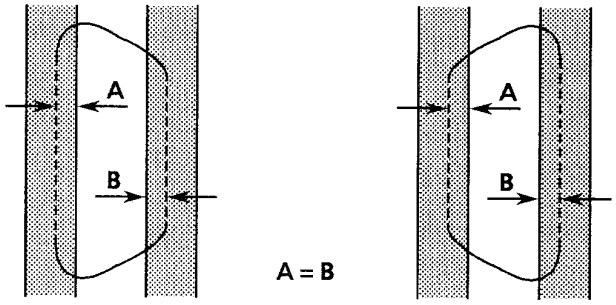
2. Sub-Sound Adjustment

Adjusting Point ☐ **R1032: Sub-Sound control** 1. Receive the "PAL COLOUR BAR" signal. • Sound modulation: 400Hz, 100%. 2. Connect a VTVM across the speaker. 3. Make sure that the "SURROUND" mode is the OFF position.	1. Adjust the volume control to have the maximum sound output. 2. Adjust R1032 so that the output voltage from the speaker becomes 6.6 Vrms. • Adjustment error: 6.6 ± 0.1 Vrms ***Note: Make sure that pin (1) of connector (KL) is grounded (0 V).***

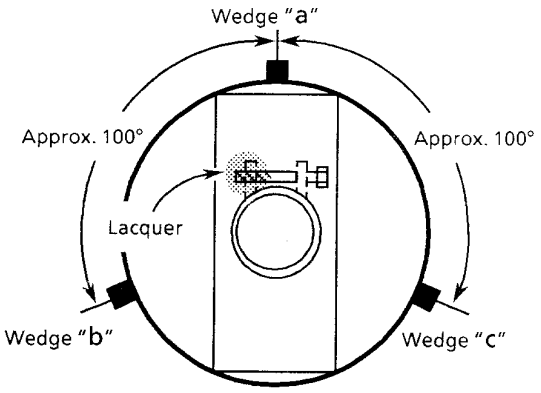
3. Noise Mute Adjustment

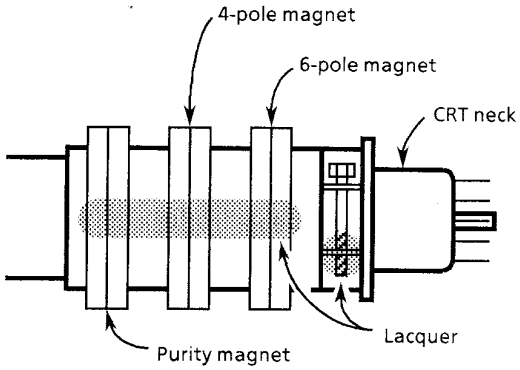
1. Receive the "PAL COLOUR BAR" signal.	1. Turn up the volume control all the way and make sure sound comes out of the speakers. Then shut off the signal. 2. Make sure the sound mute effect is on.

PURITY ADJUSTMENT

Adjusting Conditions	Adjusting Procedures
Note: Prior to the purity adjustment, warm up the unit with beam current of 1.1mA, for more than 30 minutes. 1. Receive the green signal alone and adjust the Contrast control so that the beam current is 1.1mA. 2. Fully degauss the CRT with the degaussing coil. • Vertical B_V: – 0.15 gauss. • Horizontal B_H: 0 gauss 3. Set the purity magnet at the position which gives zero (0) magnetic field.	1. Observe the green spots ("**a**" and "**b**") with a microscope as shown ***Fig. A***, and adjust the purity magnet so that they are at the specified landing position (Rank "**A**").  ***Figure A.*** **a.** Left-had side **b.** Right-hand side  ***Figure B. Rank "A" landing*** 2. Set the raster rotation at "0" position (with the unit facing the east). 3. Tighten the screws of the deflection coil. • Tightening torque: 11 kg ± 2 kg. 4. Look at the CRT corners. Apply the magnet sheets so that the landings should be of Rank "**A**".

CONVERGENCE ADJUSTMENT





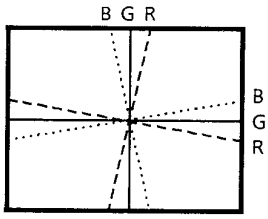


Figure a.

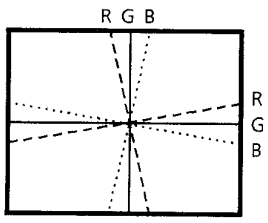


Figure b.

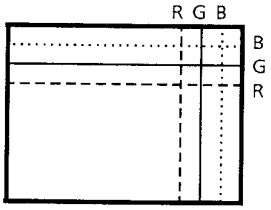


Figure c.

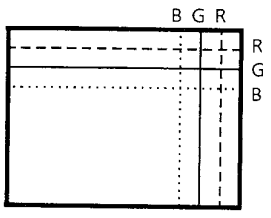


Figure d.

Adjusting Conditions

This adjustment should be performed after the purity magnet adjustment.

1. Receive "CROSSHATCH PATTERN" signal.
2. Turn on the video "N" key on the remote controller. Contrast will thereby become maximum and brightness medium.

Adjusting Procedures

STATIC CONVERGENCE

1. Adjust the opening degree of the 4-pole magnet and rotate the magnet to converge red and blue lines.
2. Adjust the opening degree of the 6-pole magnet and rotate the magnet to converge red, blue and green lines.

DYNAMIC CONVERGENCE

3. Dynamic convergence (convergence of the three colour fields) at the edges of CRT screen is accomplished in the following manner.
   - **Convergence in *Fig. a*** :
     Insert wedge"a" between the deflection yoke and CRT, and tilt the deflection yoke upward until the mis-convergence shown in ***Fig. a*** is corrected.
   - **Convergence in *Fig. b*** :
     Insert wedges "b" and "c" between the deflection yoke and CRT, and tilt the deflection yoke until the mis-convergence shown in ***Fig. b*** is corrected.
   - **Convergence in *Fig. c*** :
     Insert wedge "c" deeply between the deflection yoke and CRT, and tilt the deflection yoke to right until the mis-convergence shown in ***Fig. c*** is corrected.
   - **Convergence in *Fig. d*** :
     Insert wedge "b" deeply between the deflection yoke and CRT, and tilt the deflection yoke to left until the mis-convergence shown in ***Fig. d*** is corrected.
4. Stick the three wedges onto the CRT, and apply glass tapes thereon.
5. Apply lacquer to the deflection yoke screw, magnet unit (made of purity, 4-pole and 6-pole magnets) and magnet unit screw.

VIDEO CHROMA ADJUSTMENT

Adjusting Conditions	Adjusting Procedures

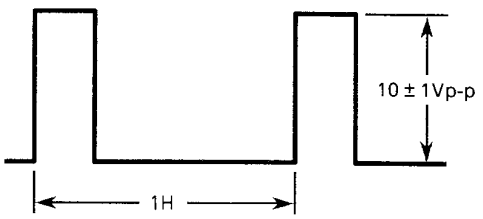
1. CRT Cut-off Adjustment

Adjusting Point
- ☐ **R2815: Red Bias control**
- ☐ **R2827: Green Bias control**
- ☐ **R2828: Blue Bias control**
- ☐ **R430: Sub-Brightness control**

Note: Prior to this adjustment, warm up the unit with the beam current of more than 1100μA for more than 30 minutes.

1. Receive "MONOSCOPE PATTERN" signal.
2. Set G-drive control at CENTER (5/10) position.
   Set B-drive control at CENTER (5/10) position.
   Set R-bias control at MIN (0/10) position.
   Set G-bias control at MIN (0/10) position.
   Set B-bias control at MIN (0/10) position.
3. Turn on the video "N" key on the remote controller.
4. Set the Contrast control at MIN (0/10) position.
5. Connect the oscilloscope to TP2801 (red cathode).

1. Set the Screen control at MIN (0/10) position.



2. Set service switch S401 at the horizontal line position.
3. Adjust Sub-Brightness control R430 to obtain a blanking pulse level of 10 ± 1Vp-p at TP2801.
4. Disconnect thhe oscilloscope fromTP2801
5. Slowly turn the Screen control clockwise and stop it where the horizontal raster appears slightly, in one of the three colours.
6. Carefully adjust the Bias controls of the other two colours until the horizontal raster becomes white.
7. Turn the Screen control counterclockwise until the horizontal raster just disappears.

2. White Balance and Back Ground Adjustment

Adjusting Point
- ☐ **R2803: Green Drive control**
- ☐ **R2804: Blue Drive control**

Note: Prior to this adjustment, warm up the unit with the beam current of more than 1100μA for more than 30 minutes.

1. Receive "MONOSCOPE PATTERN" signal.
2. Turn on the video "N" key on the remote controller.
3. Connect ammeter to TP601 and TP602.
   (Full scale: 3 mA)

1. Adjust Sub-Contrast control R424 so that the beam current becomes 1.4mA (rough adjustment)
2. Adjust Green Drive control and Blue Drive control so that the colour temperature is at 9300°K.
3. Adjust the Contrast control and Brightness control so that the beam current is approx. 200μA, and check that the colour temperature is at 9300°K. If the temperature is not at 9300°K, go back to step 2. and repeat the adjustment.
   9300°K: (X = 0.285, Y = 0.293)

VIDEO CHROMA ADJUSTMENT (Continued)

Adjusting Conditions	Adjusting Procedures

3. Sub-Contrast Adjustment

Adjusting Point ☐ **R424: Sub- Contrast control** ***Note: Prior to this adjustment, warm up the unit with the beam current of more than 1100μA for more than 30 minutes.*** 1. Receive "MONOSCOPE PATTERN" signal. 2. Press the video "N" key of the remote controller. 3. Connect the ammeter between TP601 (−) and TP602(+), and select the 3mA range.	1. Adjust Sub-Contrast control R424 to obtain a beam current of 1.4mA. ***Note:*** ***Beam current should become approx. 1.45mA when both the Contrast and Brightness controls are set to maximum.***

HORIZONTAL AND VERTICAL ADJUSTMENT

Adjusting Conditions	Adjusting Procedures

1. Vertical Linearity Adjustment

Adjusting Conditions	Adjusting Procedures
Adjusting Point ☐ **R512: Vertical Linearity control** 1. Receive "MONOSCOPE PATTERN" signal. 2. Press the video "N" key of the remote controller.	1. Roughly adjust Vertical Size control R508 to given an 8% overscan. 2. Adjust R512 for optimum vertical linearity. This is achieved by making the upper and lower halves of the circular pattern symmetric.

2. Vertical Center and Vertical Size Adjustment

Adjusting Conditions	Adjusting Procedures
Adjusting Point ☐ **S501: Vertical Center Adjust switch** ☐ **R508: Vertical Size control** 1. Receive "MONOSCOPE PATTERN" signal. 2. Press the video "N" key of the remote controller.	1. Adjust Vertical Center switch S501 at the position where the pattern's vertical center coincides with the CRT's geometrical vertical center. S501 is a step-by-step rotary switch. Set it at the optimum position. 2. Adjust Vertical Size control R508 to obtain an 8% overscan.

3. Horizontal Side Pin., Horizontal Center and Horizontal Size Adjustment

Adjusting Conditions	Adjusting Procedures
Adjusting Point ☐ **R629 : Horizontal Side Pin., control** ☐ **R1602, S601: Horizontal Center control** ☐ **R632: Horizontal Size control** 1. Receive the "MONOSCOPE PATTERN" signal and roughly adjust Horizontal Size control R632 to give about 8% overscan. 2. Receive the "CROSSHATCH PATTERN" signal. 3. Press the video "N" key of the remote controller.	1. Adjust the Side Pin control R629 to the optimum position, which is obtained where the second lines from the crosshatch pattern's right and left edges become straight. 2. Receive the "MONO SCOPE PATTERN" signal. 3. Align the pattern's horizontal center with the CRT's geometrical horizontal center by adjusting Horizontal Center control R1602. 4. If the above step fails, use the other control S601 (wire socket type) first and then make adjustment again with R1602. 5. Adjust Horizontal Size control R632 to give and 8% overscan. 6. Receive the "CROSSHATCH PATTERN" signal. 7. Readjust R629 accurately to achieve optimum side pin setting.

4. Focus Adjustment

Adjusting Conditions	Adjusting Procedures
Adjusting Point ☐ **T602: Focus control** 1. Receive "MONOSCOPE PATTERN" signal. 2. Press the video "N" key of the remote controller.	1. Using the focus control, put the center of the screen in focus.

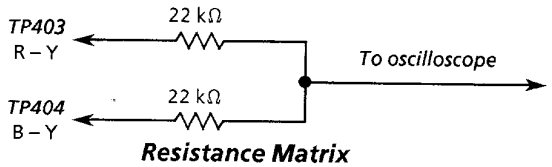
PAL CHROMA ADJUSTMENT

Adjusting Conditions	Adjusting Procedures

1. PAL Chroma Adjustment

Adjusting Point
- ☐ **R812: 1H-Delay Amp. control**
- ☐ **T801: 1H-Delay Phase control**

1. Receive "PAL COLOUR BAR" signal.
   * Before this adjustment, the PIF/AFT/AGC adjustment must have been completed.
2. Connect the following resistance matrix to TP403 and TP404, to which an oscilloscope is connected.



Resistance Matrix

3. Press the video "N" key of the remote controller.

1. Operating the colour control key on the remote controller, adjust the difference between the green and magenta signal levels to 1.5Vp-p as shown in ***Fig. a***.
2. Adjust R812 and T801 so that the output waveform becomes as shown in ***Fig. b***.

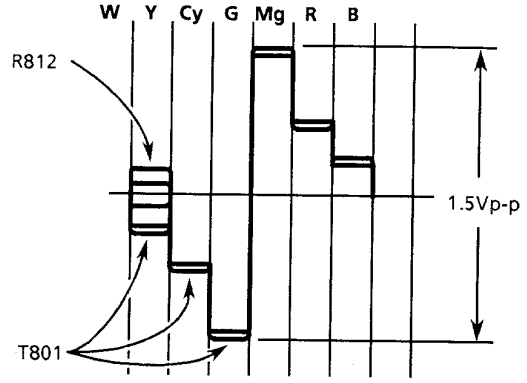


Figure a. Waveform before the adjustment

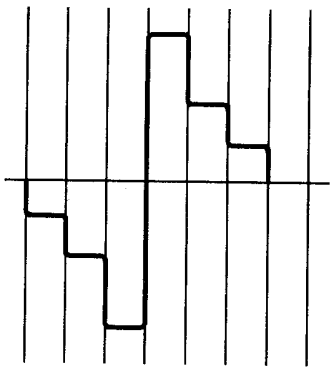


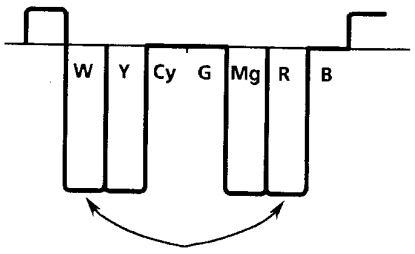
Figure b. Waveform after the adjustment

2. PAL Sub-Colour Adjustment

Adjusting Point
- ☐ **R806: PAL Sub-Colour control**

1. Receive "PAL COLOUR BAR" signal.
2. Press the video "N" key of the remote controller.
3. Connect the oscilloscope to TP2801 (red cathode).
   - Range: 20V/div.
   - Sweep time: 20μsec/div.

1. Adjust R806 so that the white signal (75%) and red signal have the same level as shown below.

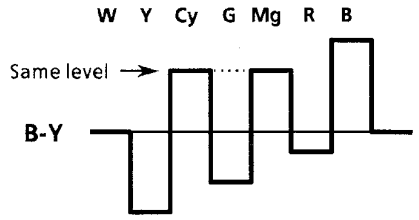


Same level for the white and red outputs.

NTSC CHROMA ADJUSTMENT

Adjusting Conditions	Adjusting Procedures

1. Sub-Tint Adjustment

Adjusting Point ☐ **R816: Sub-Tint control** 1. Receive the "NTSC 3.58MHz FULL COLOUR BAR" signal through the external input terminal. 2. Connect oscilloscope to TP404 (B-Y). 3. Press the video "N" key of the remote controller.	1. Operating the Colour control key on the remote controller, adjust the B-Y waveform to approx. 1.5 Vp-p. 2. Adjust R816 (sub-hue control) so that the Cy and Mg levels are the same. 

PROTECTOR PERFORMANCE CHECK

1. Beam Protector

1. Receive "MONOSCOPE PATTERN" signal.
2. Set the Contrast control to maximum.
3. Set the Brightness control to maximum.
4. Make the collector and emitter of Q2801 short-circuited.
5. Confirm that the protector is activated and selects the stand-by mode.

2. High Voltage Protector

1. Receive "MONOSCOPE PATTERN" signal.
2. Connect the bias box across R692.
3. Adjust the bias box voltage to 20 V and make sure the protector is not activated.
4. Adjust the bias box voltage to 24 V and make sure the protector is activated.

3. Other Protectors

When checking the performance of the short-circuit protectors for the electrolytic capacitors which are used for smoothing in the + B line (12V, 15V, 9V, 5V, etc.), be careful not to damage the related elements.

PICTURE CONTROL KEY PERFORMANCE CHECK

1. Contrast Key

1. Receive "MONOSCOPE PATTERN" signal.
2. Using the picture select switch, call the Contrast mode.
3. Confirm that the screen contrast changes when the Up/Down key is pressed.

2. Colour Key

1. Receive "PAL COLOUR BAR" signal.
2. Using the picture select switch, call the Colour mode.
3. Confirm that the colour changes when the Up/Down key is pressed. (The picture should be completely discoloured when the colour level is set to minimum.)

3. Brightness Key

1. Receive "MONO SCOPE PATTERN" signal.
2. Using the picture select switch, call the Brightness mode.
3. Use the Up/Down key to make sure the black level changes.
   - This checking can be made easier with the contrast control at the center.

4. Tint Key

1. Receive "NTSC 4.43MHz COLOUR BAR" signal.
2. Using the picture select switch, call the Tint mode.
3. Use the Up/Down key to make sure the tint on the screen changes: yellowish at Up(+) and reddish at Down (−).

5. Picture Tone Key

1. Receive "MONOSCOPE PATTERN" signal.
2. Using the picture select switch, call the P-Tone mode.
3. Confirm that the screen picture tone changes when the Up/Down key is pressed.

6. System Key

1. Receive the "PAL COLOUR BAR" signal and select the PAL mode with the System switch. Make sure the colours are proper and check also to see if the on-screen display and the system LED function well.
2. Receive the "NTSC 4.43MHz COLOUR BAR" signal and select the 443 mode with the System switch. Make sure the colours are proper and check also to see if the on-screen display and the system LED function well.
3. Receive the "NTSC 3.58MHz COLOUR BAR" signal through the external input terminal and select the 358 mode with the System switch. Make sure the colours are proper and check also to see if the on-screen display and the system LED function well.

	On-screen display	System LED
PAL mode	No display	OFF
N443 mode	■ N443	ON (red)
N358 mode	■ N358	ON (red)

SOUND CONTROL KEY PERFORMANCE CHECK

1. Treble Key

1. Receive "MONOSCOPE PATTERN" signal.
2. Using the sound select switch, call the Treble mode.
3. Using the Up/Down key, make sure the treble changes accordingly.

2. Bass Key

1. Receive "MONOSCOPE PATTERN" signal.
2. Using the sound select switch, call the Bass mode.
3. Using the Up/Down key, make sure the bass changes accordingly.

3. Balance Key

1. Receive "MONOSCOPE PATTERN" signal.
2. Using the sound select switch, call the Balance mode.
3. Push the Up (+) side of the Up/Down key to see if the right-hand sound is boosted, and the Down (–) side to make sure the left-hand sound is raised.

4. Surround

1. Receive "MONOSCOPE PATTERN" signal.
2. Push the surround selector on the remote controller to make sure the OSD indicator and the surround LED indicator are as specified.

	OSD indicator	Surround LED
OFF mode	OFF	OFF
Wide mode	(Green)	ON (Red)
Music mode	(Red)	ON (Red)
Movie mode	(Yellow)	ON (Red)

Note:
Select the S-Wide mode and listen to see if the sound is heard wider.

5. Karaoke

1. Receive "MONOSCOPE PATTERN" signal.
2. Set the volume control to the center (5/10) position.
3. Plug the microphone into the MIC jack.
4. Make sure that the KARAOKE LED lights up and the sound volume goes down (about 6 dB).
5. Use the MIC control to make sure the volume input through the microphone changes accordingly.
6. Use the ECHO control to make sure the input through the microphone gets echoed accordingly.

AUDIO/VIDEO INPUT and OUTPUT CHECK

1. Video Output Check

1. Receive "PAL COLOUR BAR" signal.
2. Be sure that the video output is 1.0 Vp-p ± 3 dB with a 75-ohm termination.

2. Audio/Video Input Check

1. Using the remote controller's TV/AV key, call the AV mode. Make sure the audio and video outputs are normal.

3. Audio Output Check

1. Receive "PAL COLOUR BAR" signal.
2. Be sure that the audio output is 1.7 Vp-p ± 3 dB with a 10-kohm termination.

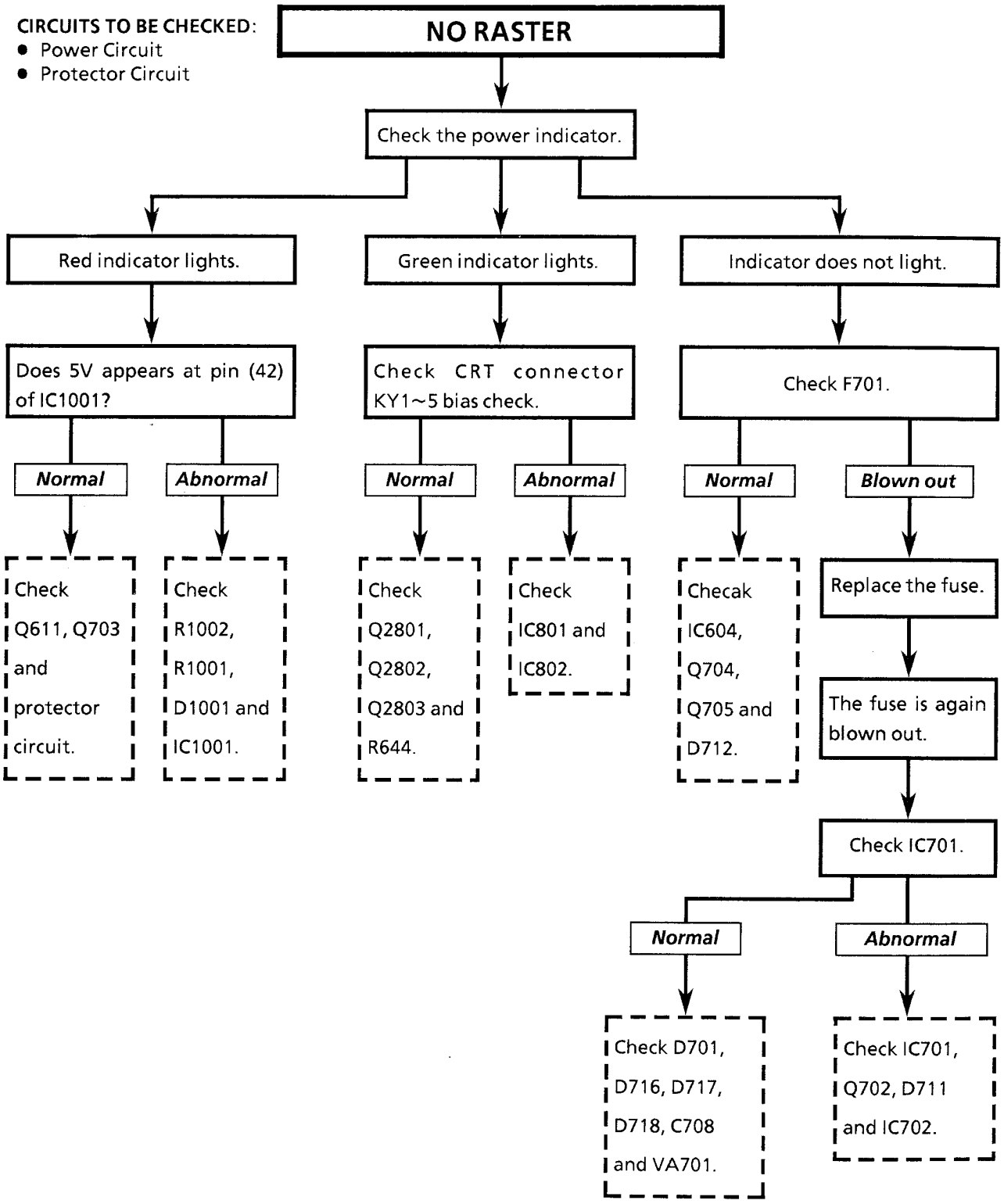
4. Karaoke Output Check

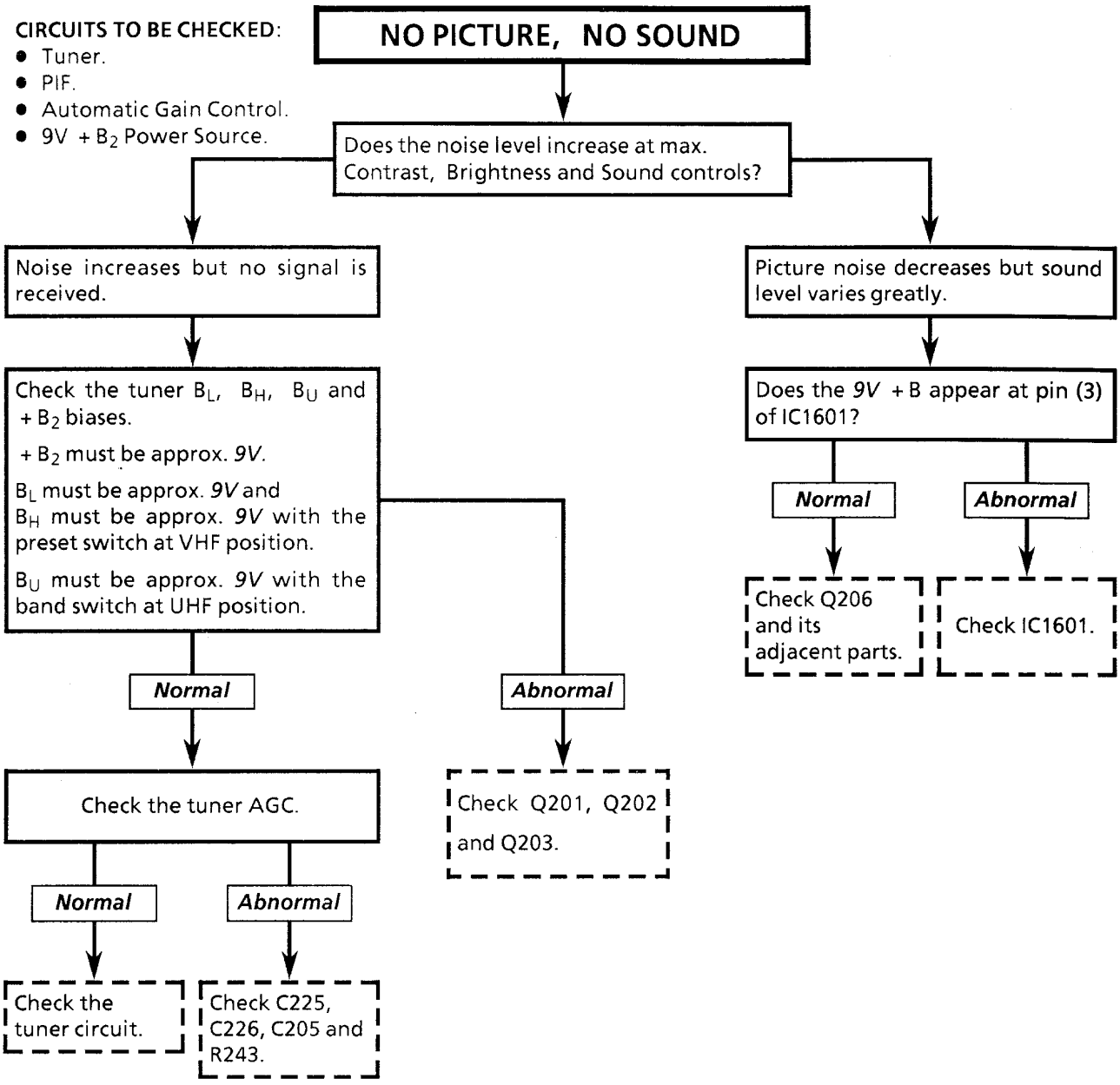
1. Receive "PAL COLOUR BAR" signal.
2. Plug the microphone into the MIC jack.
3. Make sure that the "PAL COLOUR BAR" audio signal and the microphone input are mixed with the KARAOKE output and that they are all properly outputted.

Note: The 400-Hz level of the "PAL COLOUR BAR" signal corresponds to about 0.5 Vp-p (with a 10-kohm termination).

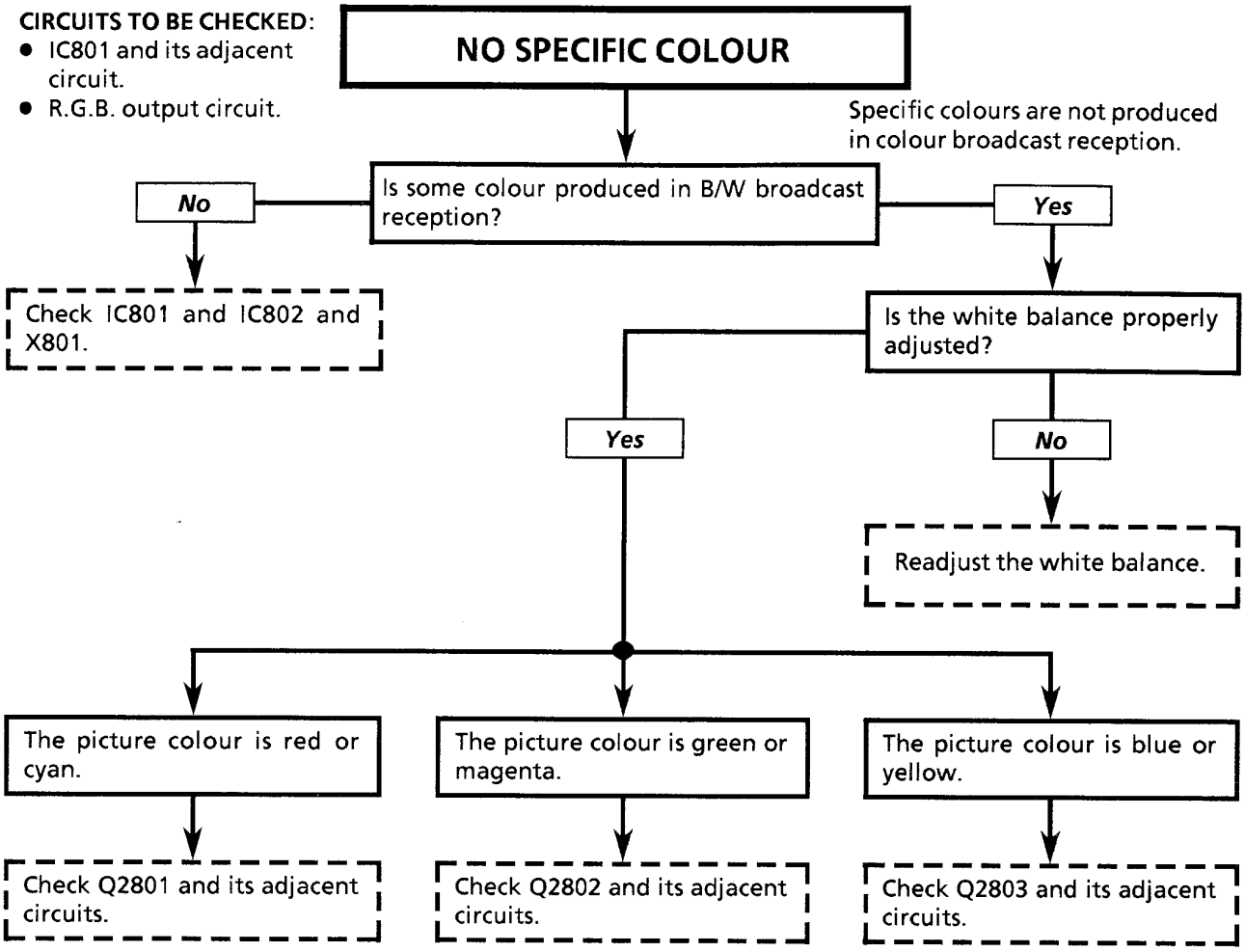
TROUBLE SHOOTING TABLE

CIRCUITS TO BE CHECKED:
- Power Circuit
- Protector Circuit

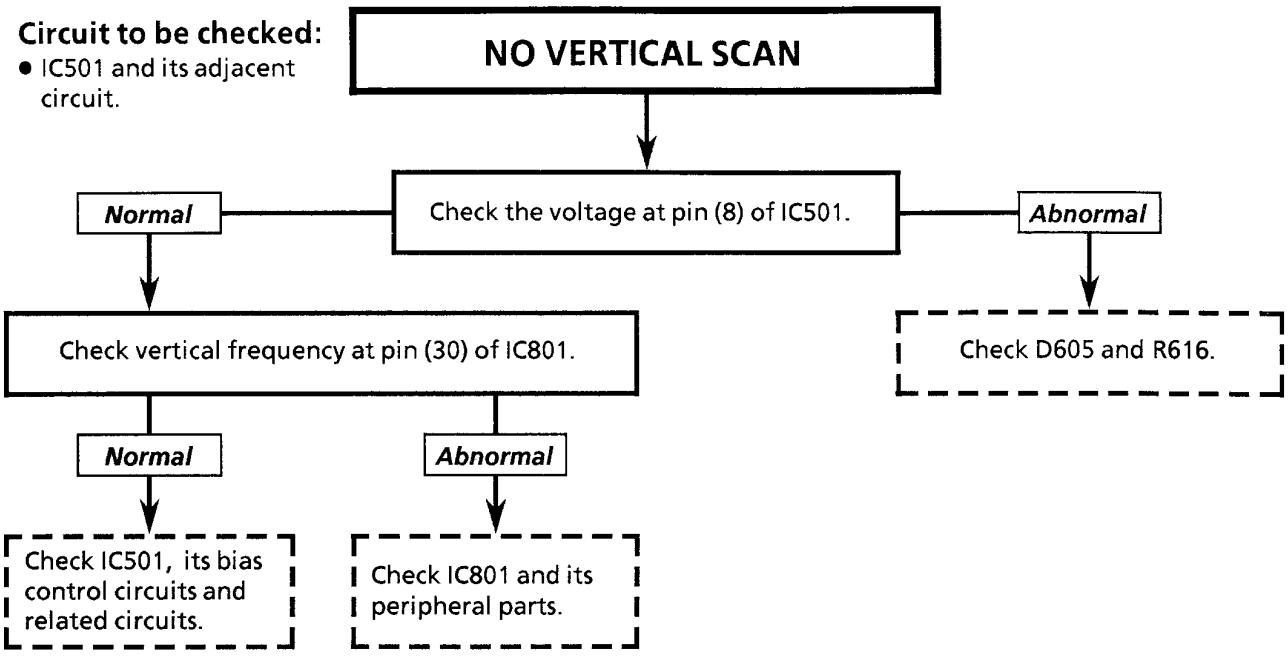



CIRCUITS TO BE CHECKED:
• Tuner.
• PIF.
• Automatic Gain Control.
• 9V + B_2 Power Source.
NO PICTURE, NO SOUND
Does the noise level increase at max. Contrast, Brightness and Sound controls?
Noise increases but no signal is received.
Check the tuner B_L, B_H, B_U and + B_2 biases.
+ B_2 must be approx. 9V.
B_L must be approx. 9V and B_H must be approx. 9V with the preset switch at VHF position.
B_U must be approx. 9V with the band switch at UHF position.
Normal
Abnormal
Check the tuner AGC.
Check Q201, Q202 and Q203.
Normal
Abnormal
Check the tuner circuit.
Check C225, C226, C205 and R243.
Picture noise decreases but sound level varies greatly.
Does the 9V + B appear at pin (3) of IC1601?
Normal
Abnormal
Check Q206 and its adjacent parts.
Check IC1601.

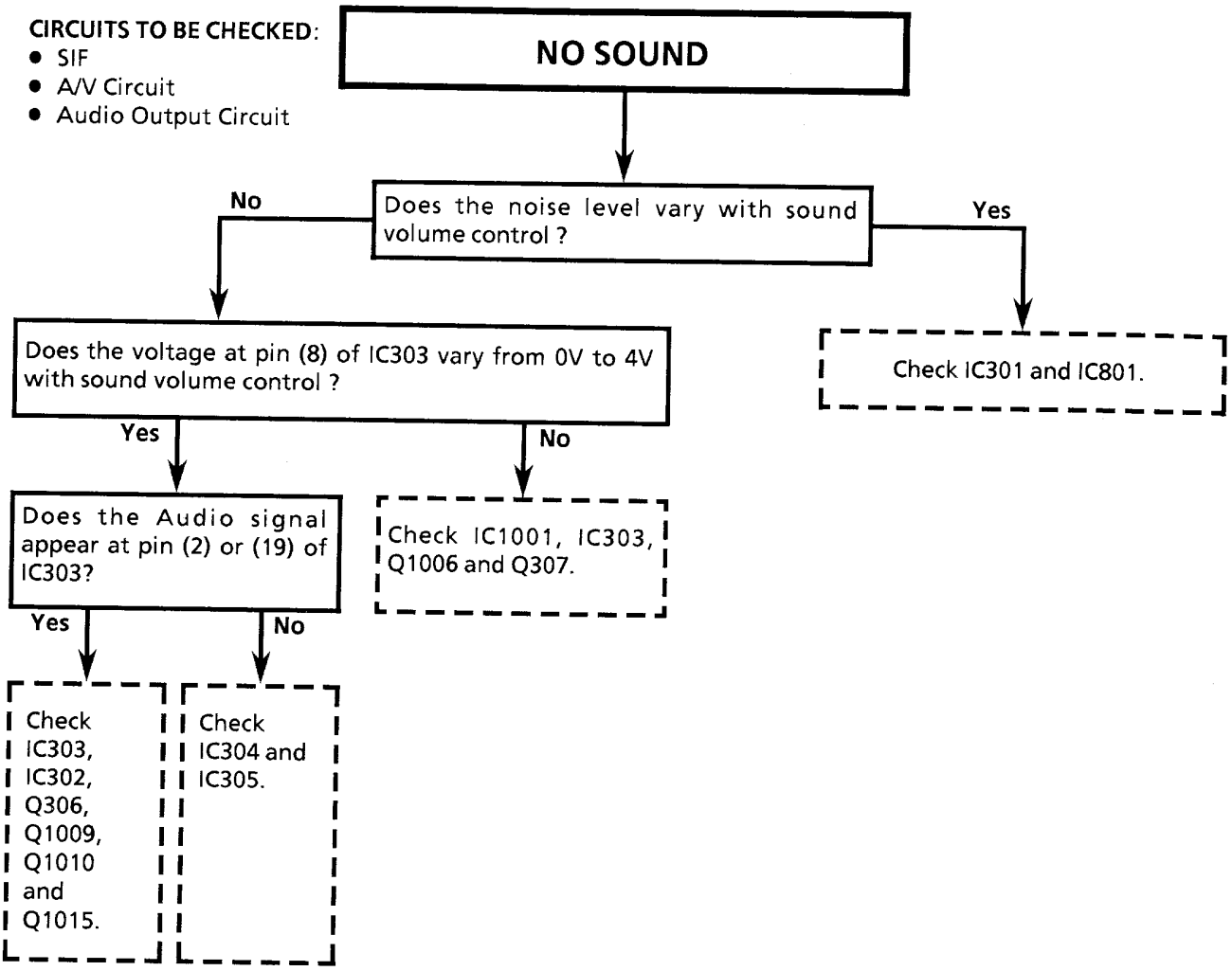
CIRCUITS TO BE CHECKED:
- IC801 and its adjacent circuit.
- R.G.B. output circuit.


NO SPECIFIC COLOUR
Specific colours are not produced in colour broadcast reception.
Is some colour produced in B/W broadcast reception?
No
Yes
Check IC801 and IC802 and X801.
Is the white balance properly adjusted?
Yes
No
Readjust the white balance.
The picture colour is red or cyan.
The picture colour is green or magenta.
The picture colour is blue or yellow.
Check Q2801 and its adjacent circuits.
Check Q2802 and its adjacent circuits.
Check Q2803 and its adjacent circuits.

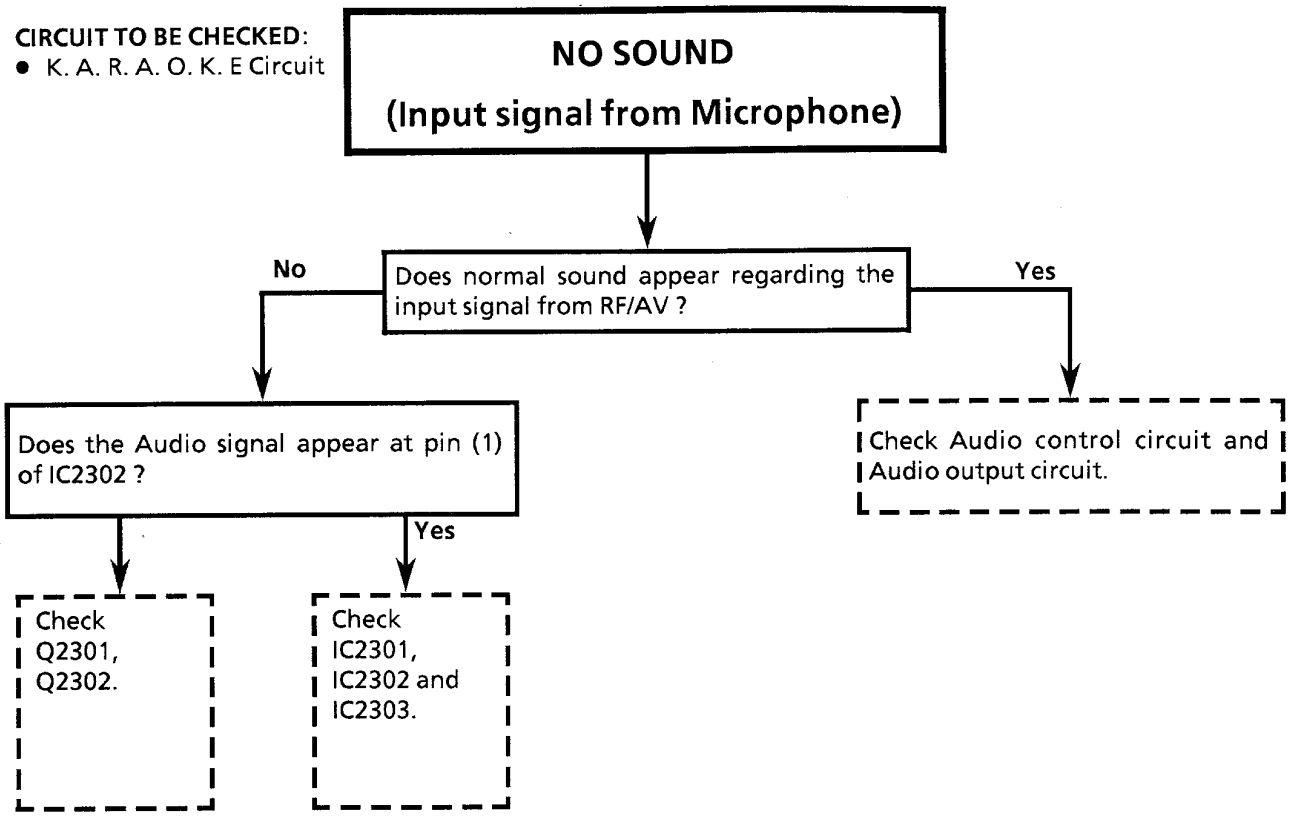
Circuit to be checked:
- IC501 and its adjacent circuit.


NO VERTICAL SCAN
Check the voltage at pin (8) of IC501.
Normal
Abnormal
Check vertical frequency at pin (30) of IC801.
Check D605 and R616.
Normal
Abnormal
Check IC501, its bias control circuits and related circuits.
Check IC801 and its peripheral parts.

CIRCUITS TO BE CHECKED:
- SIF
- A/V Circuit
- Audio Output Circuit


NO SOUND
Does the noise level vary with sound volume control ?
No
Yes
Check IC301 and IC801.
Does the voltage at pin (8) of IC303 vary from 0V to 4V with sound volume control ?
Yes
No
Check IC1001, IC303, Q1006 and Q307.
Does the Audio signal appear at pin (2) or (19) of IC303?
Yes
No
Check IC303, IC302, Q306, Q1009, Q1010 and Q1015.
Check IC304 and IC305.

CIRCUIT TO BE CHECKED:
- K. A. R. A. O. K. E Circuit


NO SOUND
(Input signal from Microphone)
Does normal sound appear regarding the input signal from RF/AV ?
No
Yes
Does the Audio signal appear at pin (1) of IC2302 ?
Yes
Check Audio control circuit and Audio output circuit.
Check Q2301, Q2302.
Check IC2301, IC2302 and IC2303.

维修注意要点

本电视机应只能由够格的维修人员来维护和修理。

高电压系统和显象管的维修

当维修高电压系统时，在显象管金属部分和第2阳极引线之间，用一绝缘（象测试探针等）和一10千欧姆的电阻串联连接，从而除去高电压系统的静电。(交流电源插头应和交流电源断开。)

1.本电视机的显象管使用整体内爆保护。
2.为安全的连续性起见，更换时必须使用相同型号的显象管。
3.不要抓住显象管的颈部来将其提起。
4.只有在防震屏面磨损时，和高电压系统彻底放电之后，才能来操作显象管。

X－射线

本电视机被设计成一些X－射线保持在绝对最小。但是由于故障或在修理时,有可能产生在靠近区域长期暴露于辐射之下的危险，因此，必须遵循下列预防措施。

1.当修理电路时，一定不要使电视机的高电压超过**30.0**kV。(电流为0μA)
2.要使电视机操作正常，必须使电视机在高电压为**27.5**kV±**1.5**kV(电流为**1.4 mA**）的情况下工作。
本电视机在出厂之前已被调整为上述的高电压。
在进行修理之后，可能会产生高电压波动的结果。因此在修理结束时，千万不要忘记检查一下高电压是否波动。
3.不要使用没经许可类型和商标的显象管来代替，这样会产生超过标准的X－射线辐射。

在归还电视机之前

在将电视机归还给用户之前，请进行下列的安全检查。

1.检查机底板和电视机其它金属部件之间的全部导线的包皮，确认导线没有折叠、没有和其它金属部件短接。
2.检查所有防护装置，象非金属的控制旋钮、绝缘青壳纸、机壳后盖、调整器和门盖或防护屏、隔离电阻－电容网、机械隔离器等。

保养调试

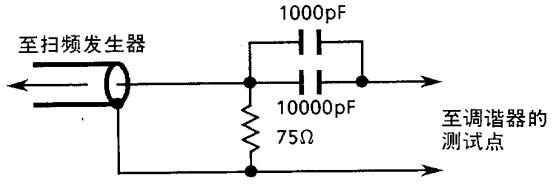
PIF/AFT/SIF/AGC的调试

调 试 条 件	调 试 方 法

1. 调谐器IFT线圈

该调谐器出厂前已作预调(无重新调试之必要)

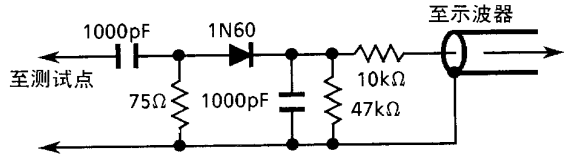
1.置接收频道于E-12位置(电视机在无信号接收状态时，设V_T电压于V_H频带的10V。)
2.用75Ω直流截断探针电路，将扫频发生器输出端连接于调谐器的测试点。



75Ω直流截断探针电路连接图

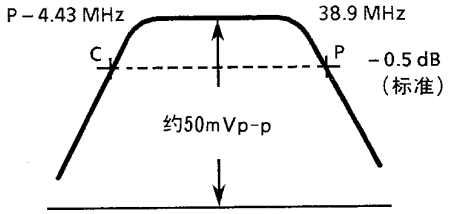
注意：扫频发生器的接地线必须接地于测试点附近。

3.扫频输出电平：80dB。
4.连接响应引线(示波器的低抗阻探针)于Q205的集电极。



低抗阻探针(带检波器)电路连接图

1.PIF AGC电压设定：
加4.5V直流电压于IC801的销(7)。
2.RF AGC电压设定：
加4V电压于调谐器AGC连线端。
3.调节调谐器IF线圈，以获得下图所示输出波形。



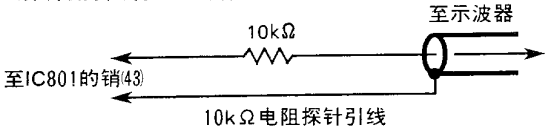
检查"P"及"C"两点是否于相同的电平线上

2. P-检波器的调试

调试点
□T202： P-检波器线圈

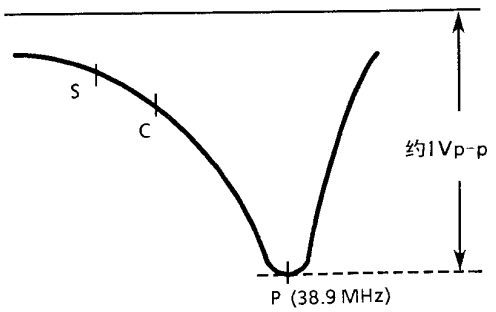
1.连接扫频发生器输出端于IC801的销(9)。
- 使用探针：75Ω直流截断探针
- 扫频发生器输出端电平：90dB

2.PIF AGC电压设定：
加4.5V直流电压于IC801的销(7)。
3.AFT静噪处理。
将IC801的销(47)接地时，必须在与销(47)之间装配10kΩ电阻后进行接地。
4.连接响应引线于IC801的销(43)。
该响应引线应为具有10kΩ电阻的探针。



10kΩ电阻探针引线

1.调节T202，使其信号最大值为38.9MHz(±50kHz)



*调节PIF AGC电压使其输出电平约达1Vp-p。
(PIF AGC电压必须小于9V。)

PIF/AFT/SIF/AGC的调试(接上页)

调 试 条 件	调 试 方 法

3-1. AFT调试

(粗调)

调试点

□T203：AFT线圈

1.连接扫频发生器输出端于IC801的销(9)。

- 使用探针：75Ω直流截断探针
- 扫频发生器输出电平：90dB

2.PIF AGC电压设定：

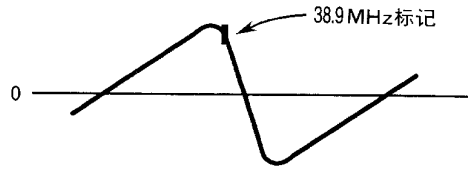
加4.5V直流电压于IC801的销(7)。

3.连接响应引线于IC801(AFT输出端)的销(48)。

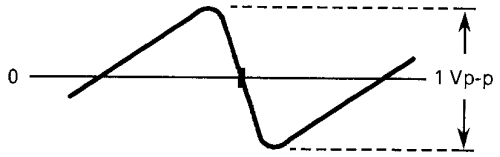
该响应引线应为具有10kΩ电阻的探针。

1.调节施加于IC801销(7)的直流电压，以让S波形的振幅达至1Vp-p左右。

2.调节T203(AFT线圈)，使38.9MHz标记和回扫线对齐。



调试前的波形



粗调后的波形

3-2. AFT调试

(微调)

调试点

□T203：AFT线圈

1.通过色带发生器接收"PAL制式彩条"信号。

- 信号强度：大于55dBμV，小于80dBμV。

2.将示波器和TP402相接。

- 示波器测示范围：0.5V/段。
- 扫频时间：20μsec/段
- 同步动作：水平同步。

3.通过1pF的电容器，将标准信号发生器(SSG)的输出端与调谐器的IF输出端相接。

- SSG输出频率：

38.9MHz(CW)±5kHz

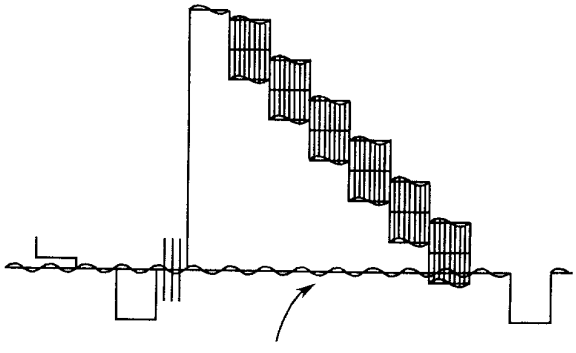
- SSG输出电平：约50dBμV

1.调复位开关于"VHF-H"位置处，调节调谐器微调开关(上、下)，直至输出波形表面无差拍出现。

2.设复位开关于NORMAL位置处。

3.调节T203，使其输出波形无差拍出现为止。

- 调节误差：38,900MHz±25kHz



调节微调使其差拍为零

PIF/AFT/SIF/AGC的调试(接上页)

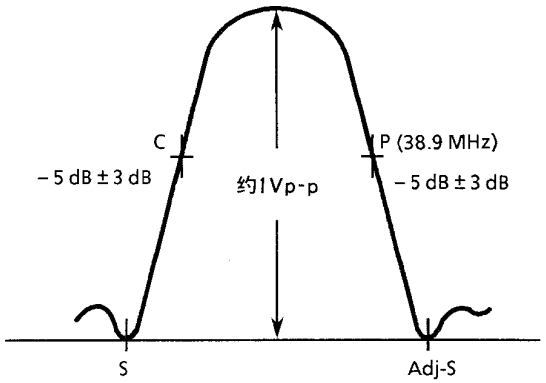
调 试 条 件	调 试 方 法

4. PIF全波形的调试

1.接收频道E-12信号。
电视机在无该信号接收状态时，设V_T电压于V_H频带的10V。
2.将扫频发生器输出端与调谐器测试点连接。
- 使用探针：75Ω直流截断探针
- 扫频发生器输出电平：70dB

3.连接响应引线于IC801的销(43)。
该响应引线应为具有10kΩ电阻的探针。
4.RF AGC电压设定：
加约4.0V直流电压于调谐器的AGC端。
5.PIF AGC电压设定：
加约4.5V直流电压于IC801的销(7)。
6.用120Ω的阻尼电阻与R238并连相接。
7.关闭AFT：
将IC801的销(47)接地，AFT便为关闭状态。

1.调节IF AGC电压，使其输出电平达至1Vp-p左右。
2.确认所得全波形轮廓如下图所示。



5. RF-AGC接通的调试

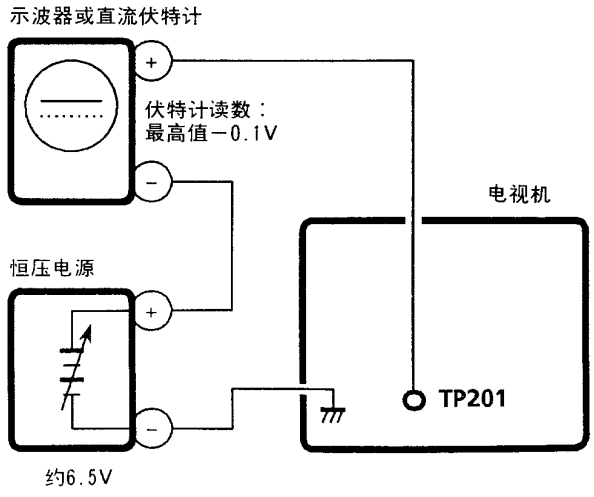
调试点
□R229：RF-AGC控制

1.接收"PAL制式彩条"信号。
- 信号强度：54±1dBμV(端接75Ω电阻)

注意：没使用50/75抗阻换能器时，调50Ω场强计读数于52～53dBμV为宜，使用50/75抗阻换能器时，应考虑因抗阻的损失。

2.连接示波器或直流伏特计于TP201。

1.旋转R229，使伏特计读数达至最高。
2.反方向缓慢旋转R229，让伏特计读数为最高值－0.1V。
3.将信号电平调至63～67dBμV，并确认其信号输出不带噪声。
4.然后将信号电平调至90～95dBμV，并确认其信号输出波形不带交叉调制拍频。



声音的调试

调 试 条 件	调 试 方 法

1. 射频副声音的调试

调试点 □ R241: 射频副声音控制 1.接收"PAL制式彩条"信号。 ● 声音调制：400Hz，100% 2.连接示波器于音频输出端(RCA端)。	1.调节R240，使400Hz正弦波波形达至1.6Vp-p。 ● 调节误差：1.6±0.08Vp-p **注意**：确认连接器(KL)的销(1)处为接地状态(0V)。

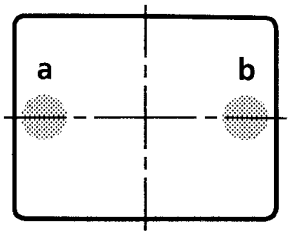
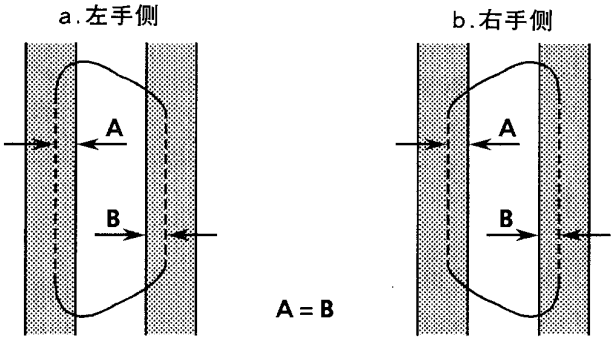
2. 副声音的调试

调试点 □R1032：副声音控制 1.接收"PAL制式彩条"信号。 ● 声音调制：400Hz，100% 2.连接VTVM于扬声器。 3.确认"SURROUND"(环场音响)的设定于OFF状态。	1.触按音量调节键钮，调音量输出于最大。 2.调节R1032，使扬声器的输出电压值为6.6Vrms。 ● 调节误差：6.6±0.1Vrms **注意**：确认连接器(KL)的销(1)处为接地状态(0V)。

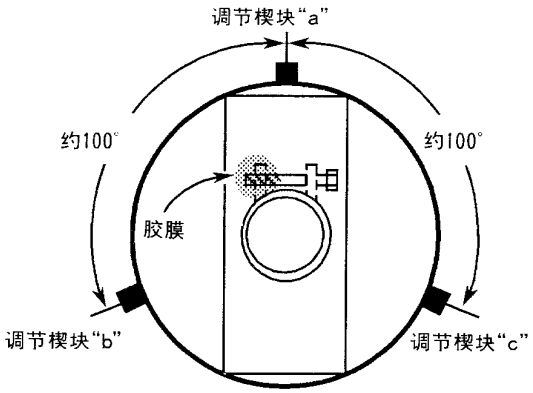
3. 静噪的调试

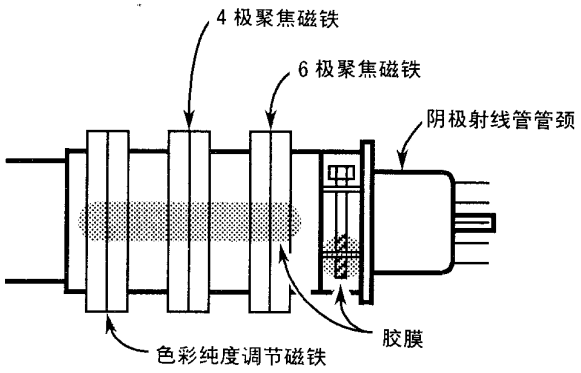
1.接收"PAL制式彩条"信号。	1.从最小至最大调节音量，检查扬声器有无声音输出。 然后，关断彩条信号的输出。 2.检查消音的设定是否于ON状态。

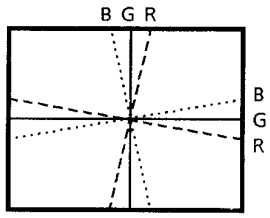
色彩纯度的调试

调 试 条 件	调 试 方 法
注意：作此项调试前，先用1.1mA电子束电流为电视机预热30分钟以上。 1.接收单一的绿色信号。通过对比度调节，将电子束电流强度调至1.1mA。 2.通过去磁线圈，为CRT(阴极射线管)作完全去磁处理。 ●垂直B_V：－0.15高斯 ●水平B_H：0高斯 3.设色彩纯度调节磁铁于磁场强度为0之位置。	1.用放大镜于电视机荧屏上观察如**图A**所示的绿色点（“a”点和“b”点）。调节色彩纯度调节磁铁，使其绿色点的显象管着屏位置(顺序“A”)达规定要求。  **图A**  **图B.顺列“A”的显象管着屏** 2.将光栅转角调至为0。(保持电视机面向东方)。 3.旋紧偏转线圈的螺丝。 ●旋转力矩：11kg±2kg 4.观察CRT(阴极射线管)角部。加磁铁片使绿色点的显象管着屏位置为顺列“A”。

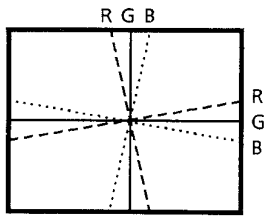
聚焦度的调试



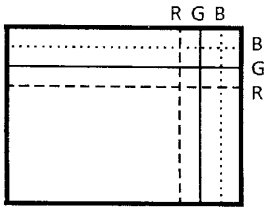




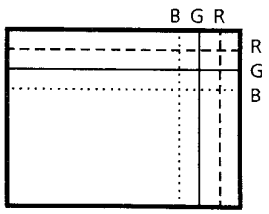
图a.



图b.



图c.



图d.

调 试 条 件

此项调试必须于色彩纯度调试之后进行。

1. 接收“棋盘格测试图”信号。
2. 触按遥控器上的“N”(标准图象)键钮。这样，电视机的对比度设定为最大，亮度设定为中央。

调 试 方 法

静聚焦度的调试：

1. 调节 4 极聚焦磁铁的张开程度以及其转角，以会聚红色线条和蓝色线条。
2. 调节 6 极聚焦磁铁的张开程度以及其转角，以会聚红色线条，蓝色线条和绿色线条。

动聚焦度的调试：

3. CRT荧屏边缘的动聚焦度(三彩色色场的会聚)的调试按下述要求进行。

● 按图a. 要求的会聚调试：

插入调节楔块“a”于偏转线圈和CRT之间，并向上倾斜调节偏转线圈，以按图a. 所示要求矫正不良会聚。

● 按图b. 要求的会聚调试：

插入调节楔块“b”和“c”于偏转线圈和CRT之间，并倾斜调节偏转线圈，以按图b. 所示要求矫正不良会聚。

● 按图c. 要求的会聚调试：

深插调节楔块“c”于偏转线圈和CRT之间，并向右倾斜调节偏转线圈，以按图c. 所示要求矫正不良会聚。

● 按图d. 要求的会聚调试：

深插调节楔块“b”于偏转线圈和CRT之间，并向左倾斜调节偏转线圈，以按图d. 所示要求矫正不良会聚。

4. 完成以上调试后，用透明胶带粘固三只调节楔块于CRT。
5. 然后用胶膜封固偏转线圈调节螺丝，调节磁铁装置(由纯度调节磁铁、4 极聚焦磁铁和 6 极聚焦磁铁构成)以及调节磁铁装置固定螺丝。

视频/色度信号电路的调试

调 试 条 件	调 试 方 法

1. CRT截止的调试

调试点

□R2815：红色偏转控制

□R2827：绿色偏转控制

□R2828：蓝色偏转控制

□R430 ：副亮度控制

注意：作此项调试前，先用1100μA以上的电子束电流为电视机预热30分钟以上。

1.接收"单象管图案"信号。

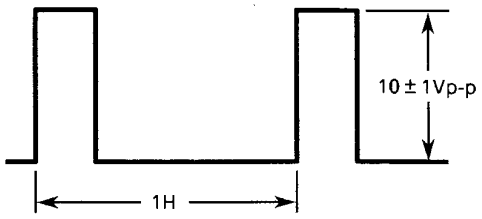
2.设绿色激励控制于中央位置(5/10)。
设蓝色激励控制于中央位置(5/10)。
设红色偏转控制于最小位置(0/10)。
设绿色偏转控制于最小位置(0/10)。
设蓝色偏转控制于最小位置(0/10)。

3.触按遥控器上的"N"(标准图象)键钮。

4.设对比度控制于最小位置(0/10)。

5.将示波器与TP2801(红色阴极)连接。

1.设画面控制于最小位置(0/10)。



2.旋转维修开关S401于水平线位置。

3.调节副亮度控制R430，以获得TP2801处幅值为10±1Vp-p的隐消脉冲波。

4.拆去示波器和TP2801的连接。

5.顺时针方向缓慢地旋转画面控制旋钮，使荧屏上微弱地出现红、绿、蓝三色之一的单色水平光栅为止。

6.精细调节其它二色的偏转控制，使荧屏上的水平光栅变成白色。

7.反时针方向旋转画面控制旋钮，直至荧屏上的水平光栅完全消失。

2. 白色平衡及底色的调试

调试点

□R2803：绿色激励控制

□R2804：蓝色激励控制

注意：作此项调试前，先用1100μA以上的电子束电流为电视机预热30分钟以上。

1.接收"单象管图案"信号。

2.触按遥控器上的"N"(标准图象)键钮。

3.连接电子束安培计(测示范围：3mA)于TP601(－)和TP602(＋)。

1.调节副对比度控制R424，以获得约1.4mA的电子束电流(粗调)。

2.调节绿色激励和蓝色激励控制，以获得9300°K的色温。

3.调节对比度控制和亮度控制，使其电子束电流达200μA左右，然后，检查色温是否为9300°K。如果，这时的色温并非9300°K，则必须回到步骤2的调试并重新进行此项调试。
9300°K：(X＝0.285，Y＝0.293)。

视频/色度信号电路的调试(接上页)

调 试 条 件	调 试 方 法
3. 副对比度的调试	
调试点 □R424：副对比度控制 注意：作此项调试前，先用1100μA以上的电子束电流为电视机加热30分钟以上。 1.接收"单象管图案"信号 2.触按遥控器上的"N"(标准图象)键钮。 3.连接电子束安培计(测示范围：3mA)于TP601(－)和TP602(＋)。	1.调节副对比度控制R424，以获得1.4mA的电子束电流。 注意： 对比度控制和亮度控制均设定于最大位置时，电子束安培计所测电子束电流强度应为1.45mA左右。

水平同步和垂直同步电路的调试

调 试 条 件	调 试 方 法

1. 垂直线性度的调试

调试点 □R512：垂直线性度控制 1.接收"单象管图案"信号。 2.触按遥控器上的"N"(标准图象)键钮。	1.粗调垂直尺寸调节R508，以获得8％的过扫描。 2.调节R512，以获得最佳垂直线性度。 最佳垂直线性度获得由上下两半圆形图案的对称而判定。

2. 垂直对中和垂直尺寸的调试

调试点 □S501：垂直对中调节开关 □R508：垂直尺寸调节 1.接收"单象管图案"信号。 2.触按遥控器上的"N"(标准图象)键钮。	1.旋转垂直对中调节S501，使荧屏的画面中心与CRT的几何中心对齐。S501是分档旋转式开关。左右旋转之，寻找其最佳位置。 2.旋转垂直尺寸调节R508，以获得8％的过扫描。

3. 水平两侧枕形畸变，水平中心和水平尺寸的调试

调试点 □R629：水平两侧枕形畸变调节 □R1602,S601：水平对中调节 □R632：水平尺寸调节 1.接收"单象管图案"信号。粗调水平尺寸调节R632，以获得8％的过扫描。 2.接收"棋盘格测试图"信号。 3.触按遥控器上"N"(标准图象)键钮。	1.旋转水平两侧枕形畸变调节R629，寻找其最佳调节位置：荧屏棋盘格左右两侧边缘的线条拉直。 2.接收"单象管图案"信号。 3.旋转水平对中调节R1602，使荧屏的画面中心和CRT的几何中心对齐。 4.无法作上记的水平对中调节时，将S601(导线套管型)转换后重新用R1602来进行调节。 5.旋转水平尺寸调节R632，以获得8％的过扫描。 6.接收"棋盘格测试图"信号。 7.重新精调R629，最终设定水平两侧枕形畸变的最佳调节位置。

4. 聚焦的调试

调试点 □T602：聚焦控制 1.接收"单象管图案"信号。 2.触按遥控器上的"N"(标准图案)键钮。	1.调节聚焦控制，使荧屏中心位置达至最佳聚焦效果。

PAL制式色度信号电路的调试

调 试 条 件	调 试 方 法

1. PAL制式色度的调试

调试点

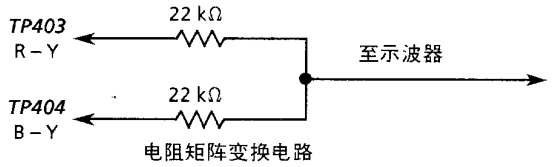
□R812：1H延迟放大控制

□T801：1H延迟相位控制

1. 接收"PAL制式彩条"信号。

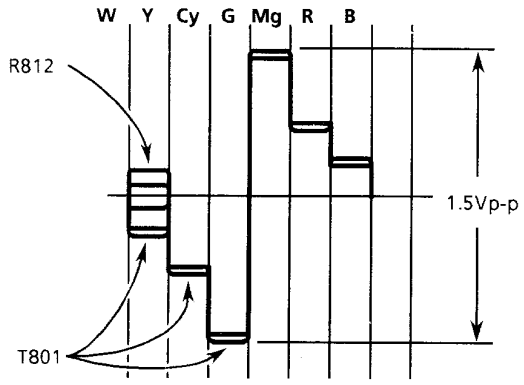
＊此项调试必须于PIF/AFT/AGC的调试的完成后进行。

2. 通过一个电阻矩阵变换电路，将示波器连接于TP403和TP404。

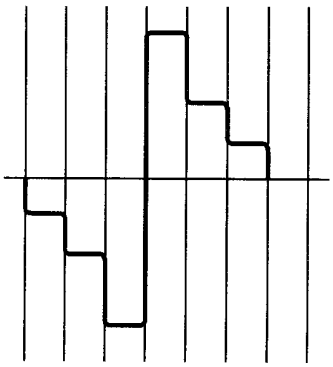


3. 触按遥控器上的"N"（标准图象）键钮。

1. 调节遥控器上的彩色控制键钮，使色差信号的输出波形达到如图a所示的1.5Vp-p之要求。
2. 调节R812和T801，使图a所示的输出波形变为图b所示波形。



图a. 调试前的输出波形



图b. 调试后的输出波形

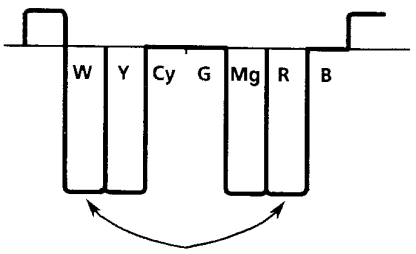
2. PAL制式副彩色的调试

调试点

□R806：PAL制式副彩色控制

1. 接收"PAL制式彩条"信号。
2. 触按遥控器上的"N"（标准图象）键钮。
3. 将示波器与TP2801（红色阴极）连接。
   - 电压范围：20V/段
   - 扫频时间：20微秒/段

1. 调节R806，使白色信号（75%）和红色信号达至如下图所示的同样电平值的要求。

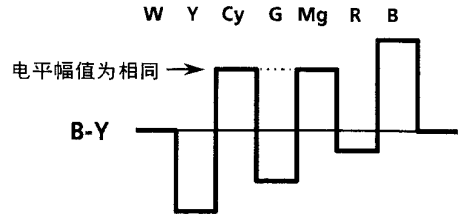


使白色信号与红色信号的输出达至同样电平值。

NTSC制式色度信号电路的调试

调 试 条 件	调 试 方 法

1. 副色调的调试

调试点 □R816：副色调控制 1.由外部输入接收"NTSC制式3.58 MHz 全彩条"信号。 2.将示波器与TP404(B-Y)连接。 3.触按遥控器上的"N"(标准图象)键钮。	1.调节遥控器上的彩色控制键钮，使B-Y输出波形达至1.5Vp-p左右。 2.调节副色调控制(R816)，以获得Cy与Mg的电平值为相同。 

保护电路性能的检查

1. 电子束保护电路

1.接收"单象管图案"信号。
2.设对比度控制于最大位置。
3.设亮度控制于最大位置。
4.短接Q2801的集电极和发射极。
5.检查这时的保护电路是否被激励，并置电视机于准备状态。

2. 高压保护电路

1.接收"单象管图案"信号。
2.将偏压器并接于R692。
3.调偏压器电压于20V，检查高压保护电路是否被激励。
4.调偏压器电压于24V，检查高压保护电路是否被激励。

3. 其它保护电路

检查用于+B线路(12V, 15V, 9V, 5V等)平流电解电容器的短接保护电路时，注意勿碰伤有关部件。

图象控制键钮功能的检查

1. 对比度控制键钮

1.接收"单象管图案"信号。
2.触按图象控制选择键钮，设电视机于对比度调节状态。
3.触按上移(+)/下移(-)键钮，检查画面对比度是否发生变化。

2. 彩色控制键钮

1.接收"PAL制式彩条"信号。
2.触按图象控制选择键钮，设电视机于彩色调节状态。
3.触按上移(+)/下移(-)键钮，检查画面的彩色是否发生变化。(设彩色调节于最小程度时，画面应完全变为黑白图象)。

3. 亮度控制键钮

1.接收"单象管图案"信号。
2.触按图象控制键钮，设电视机于亮度调节状态。
3.触按上移(+)/下移(-)键钮，检查亮度黑电平是否发生变化。
▶作此项检查时，设对比度调节于其中间程度为宜。

4. 荧屏色调控制键钮

1.接收"NTSC制式4.43MHz彩条"信号。
2.触按图象控制选择键钮，设电视机于荧屏色度调节状态。
3.触按上移(+)/下移(-)键钮，检查荧屏画面色调的变化：连续触按上移(+)键钮时，画面色调变黄；连续触按下移(-)键钮时，画面色调变红。

5. 图象色调控制键钮

1.接收"单象管图案"信号。
2.触按图象控制选择键钮，设电视机于图象色调状态。
3.触按上移(+)/下移(-)键钮，检查画面上的图象色调是否发生变化。

6. 制式选择键钮

1.接收"PAL制式彩条"信号。触按制式选择键钮，设电视机于PAL接收制式。
先检查荧屏表示色彩是否正常，然后再检查荧屏上的在屏表示字样和制式光电表示。
2.接收"NTSC4.43MHz彩条"信号。触按制式选择键钮，设电视机于443接收制式。
先检查荧屏表示色彩是否正常，然后再检查荧屏上的在屏表示字样和制式光电表示。
3.由外部输入接收"NTSC3.58MHz彩条"信号。
触按制式选择键钮，设电视机于358接收制式。
先检查荧屏表示色彩是否正常，然后再检查荧屏上的在屏表示字样和制式光电表示。

	在屏表示字样	制式光电表示
PAL制式	无表示	关　闭
N443制式	■N443	点亮(红色)
N358制式	■N358	点亮(红色)

音响控制键钮功能的检查

1. 高音输出调节键钮

1.接收"单象管图案"信号。
2.触按音响控制选择键钮，设电视机于高音输出调节状态。
3.触按上移(+)/下移(-)键钮，调高音输出于适宜之程度。

2. 低音输出调节键钮

1.接收"单象管图案"信号。
2.触按音响控制选择键钮，设电视机于低音输出调节状态。
3.触按上移(+)/下移(-)键钮，调低音输出于适宜之程度。

3. 音响平衡调节键钮

1.接收"单象管图案"信号。
2.触按音响控制选择键钮，设电视机于音响平衡调节状态。
3.触按上移(+)/下移(-)键钮的上移(+)侧，检查音响输出是否逐渐转向右侧；然后，按其下移(-)侧，检查音响输出是否逐渐向左侧。

4. 环场音响选择键钮

1.接收"单象管图案"信号。
2.触按遥控器上的环场音响选择键钮，检查在屏表示字样及环场音响光电指示器是否满足下示规定要求。

	在屏表示字样	环场音响光电指示器
无环场音响	无表示	关　闭
广域环场音响	◯◯(绿色)	点亮(红色)
音乐环场音响	◯◯(红色)	点亮(红色)
电影环场音响	◯◯(黄色)	点亮(红色)

注：
选定"广域环场音响"方式，听是否有环场音响之效果。

5. 卡拉OK(歌曲伴奏音响)

1.接收"单象管图案"信号。
2.设音量控制于其中央(5/10)位置。
3.插麦克风插头于麦克风插孔。
4.检查"卡拉OK"(KARAOKE)光电指示器是否点亮，并且与此同时输出音量降低(约6dB)。
5.旋转麦克风(MIC)旋钮调节其输入音量于适宜之程度。
6.旋转回声(ECHO)旋钮，使麦克风回声音响效果调节于适宜之程度。

音频/视频输入和输出的检查

1. 视频输出的检查

1.接收"PAL制式彩条"信号。
2.检查带一只75Ω端电阻时的视频输出是否为1.0Vp-p±3dB的规定要求。

2. 音频/视频输入的检查

1.触按遥控器上电视/音象(TV/AV)键钮，设电视机于音象接收(AV)状态。检查音频信号和视频信号的接收和表示是否正常。

3. 音频输出的检查

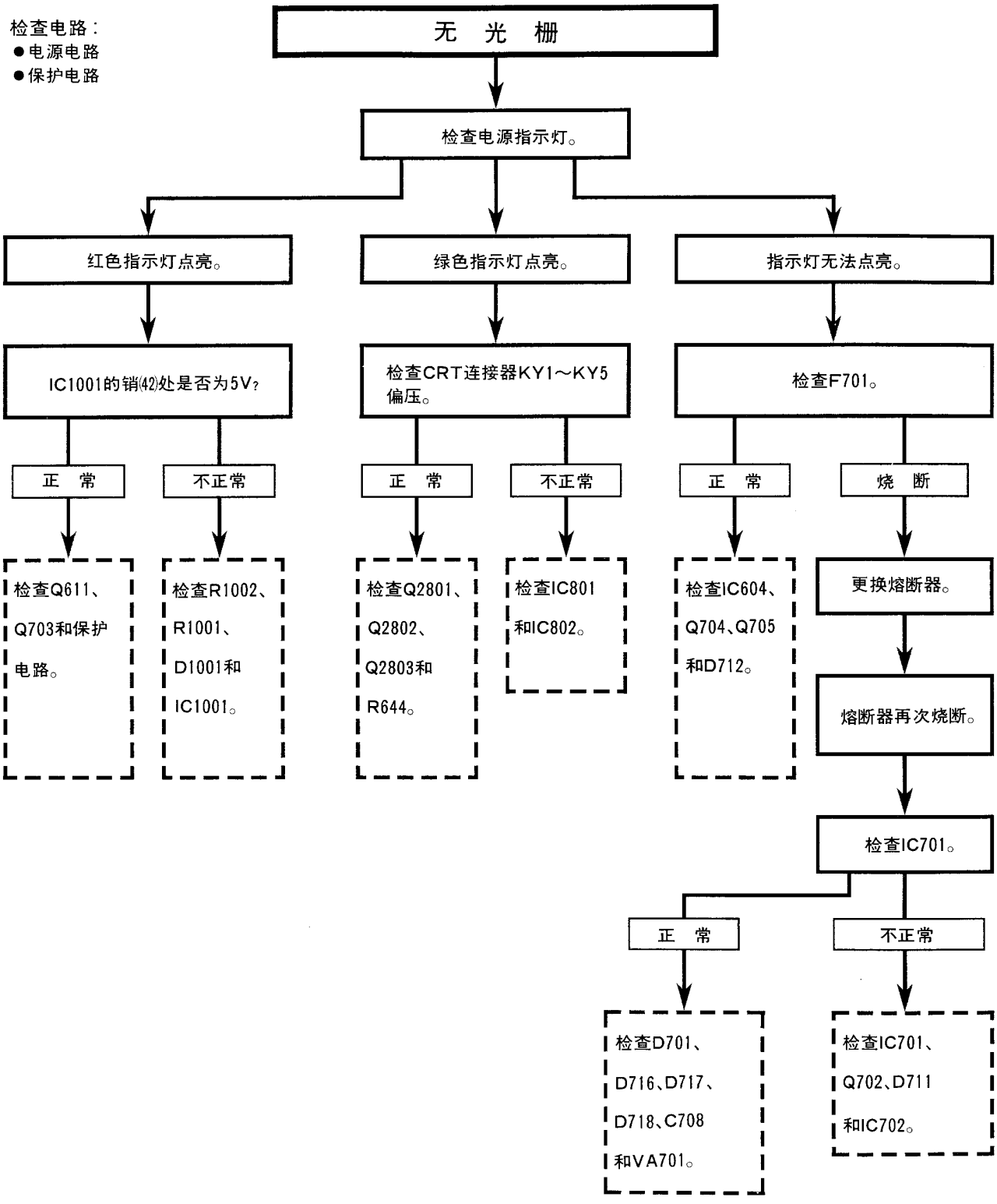
1.接收"PAL制式彩条"信号。
2.检查带一只75Ω端电阻时的音频输出是否为1.7Vp-p±3dB的规定要求。

4. 卡拉OK(歌曲伴奏音响)输出的检查

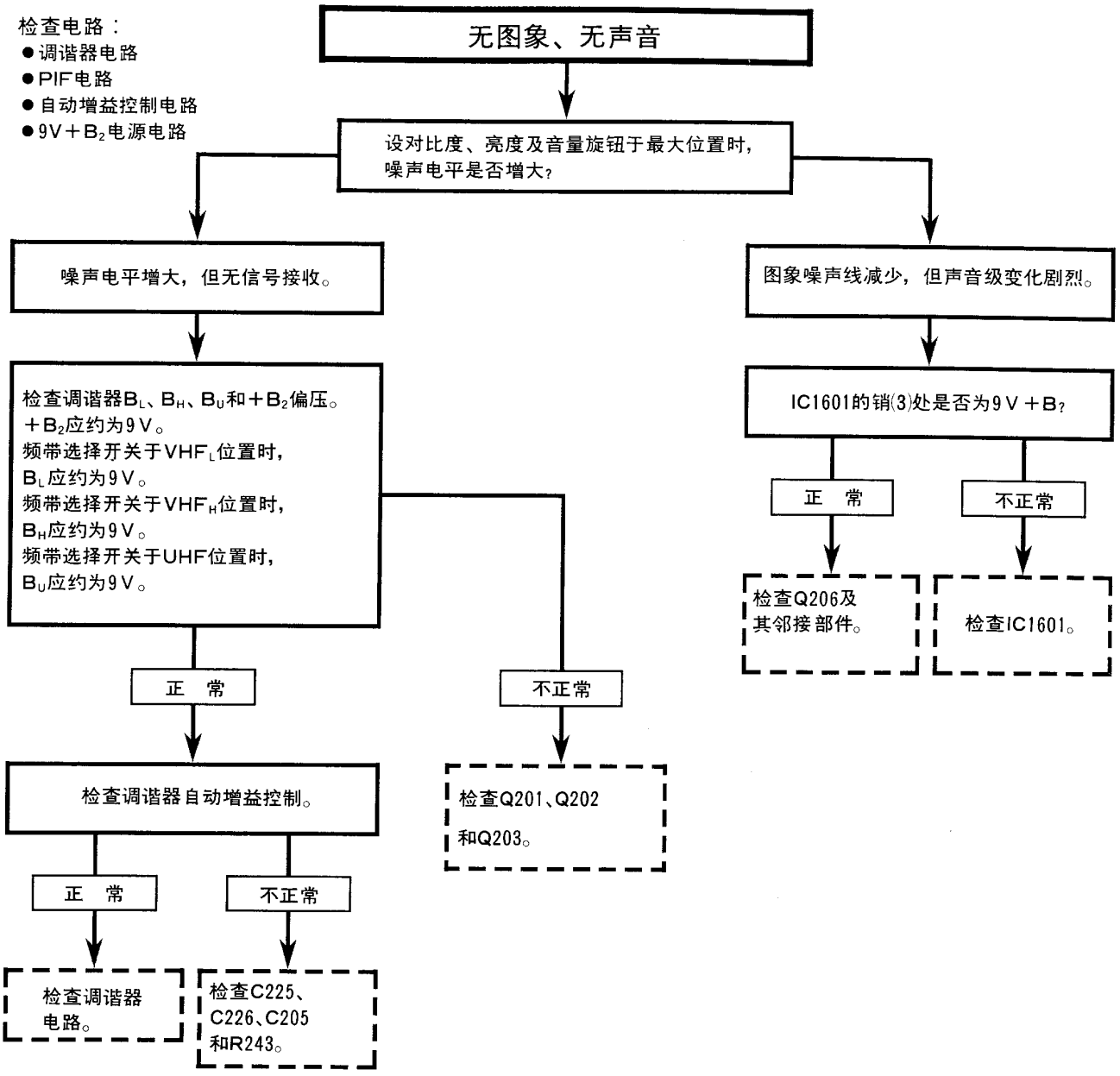
1.接收"PAL制式彩条"信号。
2.插麦克风插头于麦克风插座。
3.设音响输出于卡拉OK输出，检查PAL制式彩条信号的音响和麦克风输入的音响是否正常和谐地混合一体。
注：PAL制式彩条信号的400Hz音频信号输出应为0.5Vp-p(带一只10kΩ端电阻)。

故障检修流程图

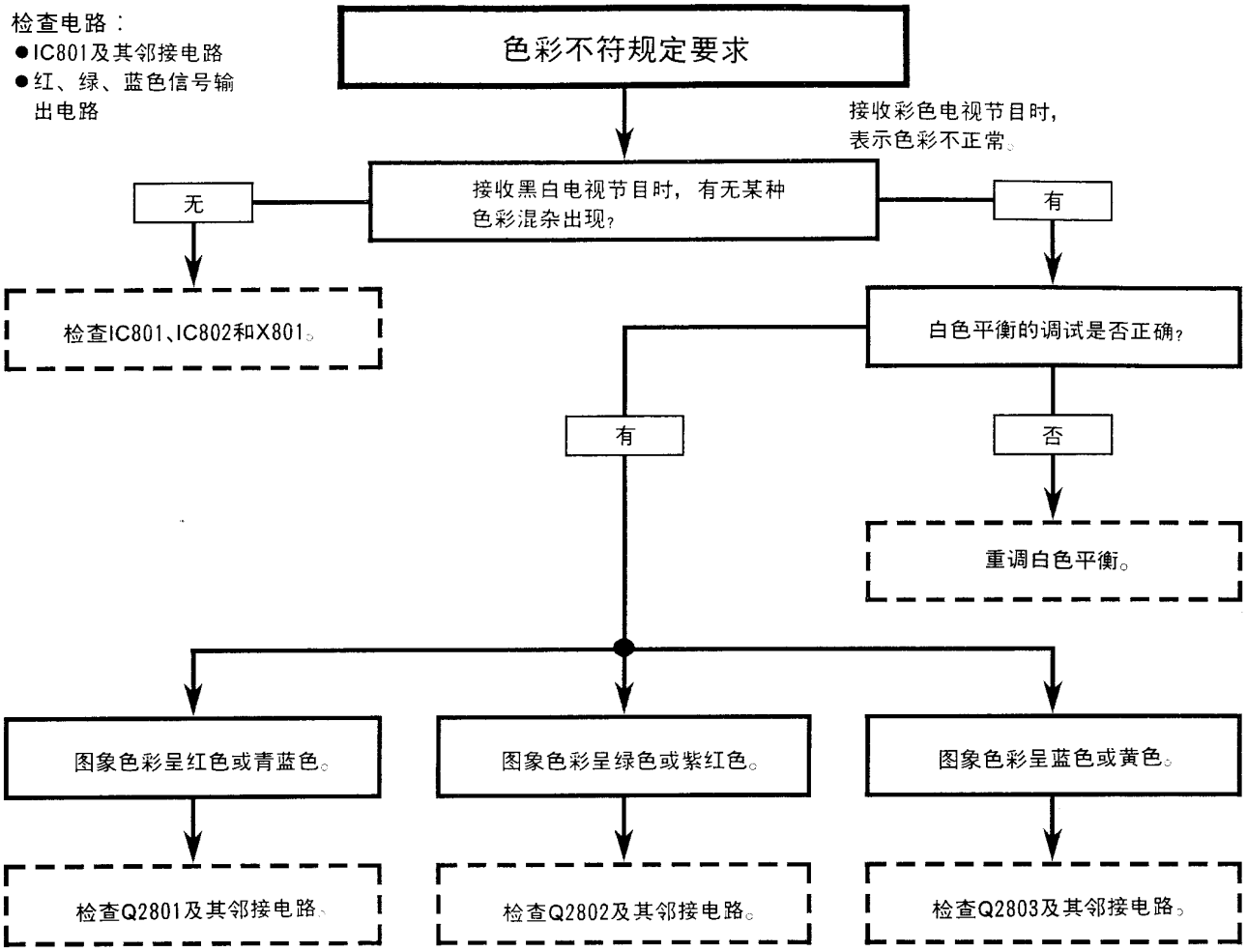
检查电路：
- ●电源电路
- ●保护电路



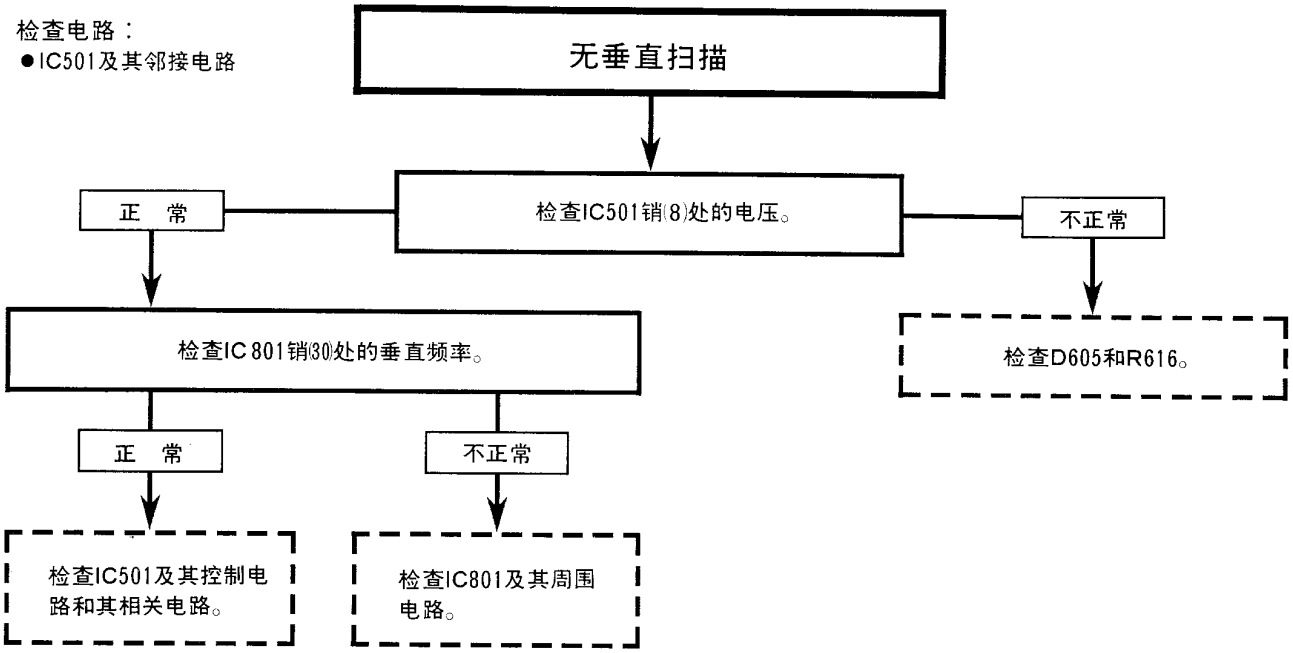
检查电路：
- 调谐器电路
- PIF电路
- 自动增益控制电路
- 9V＋B_2电源电路



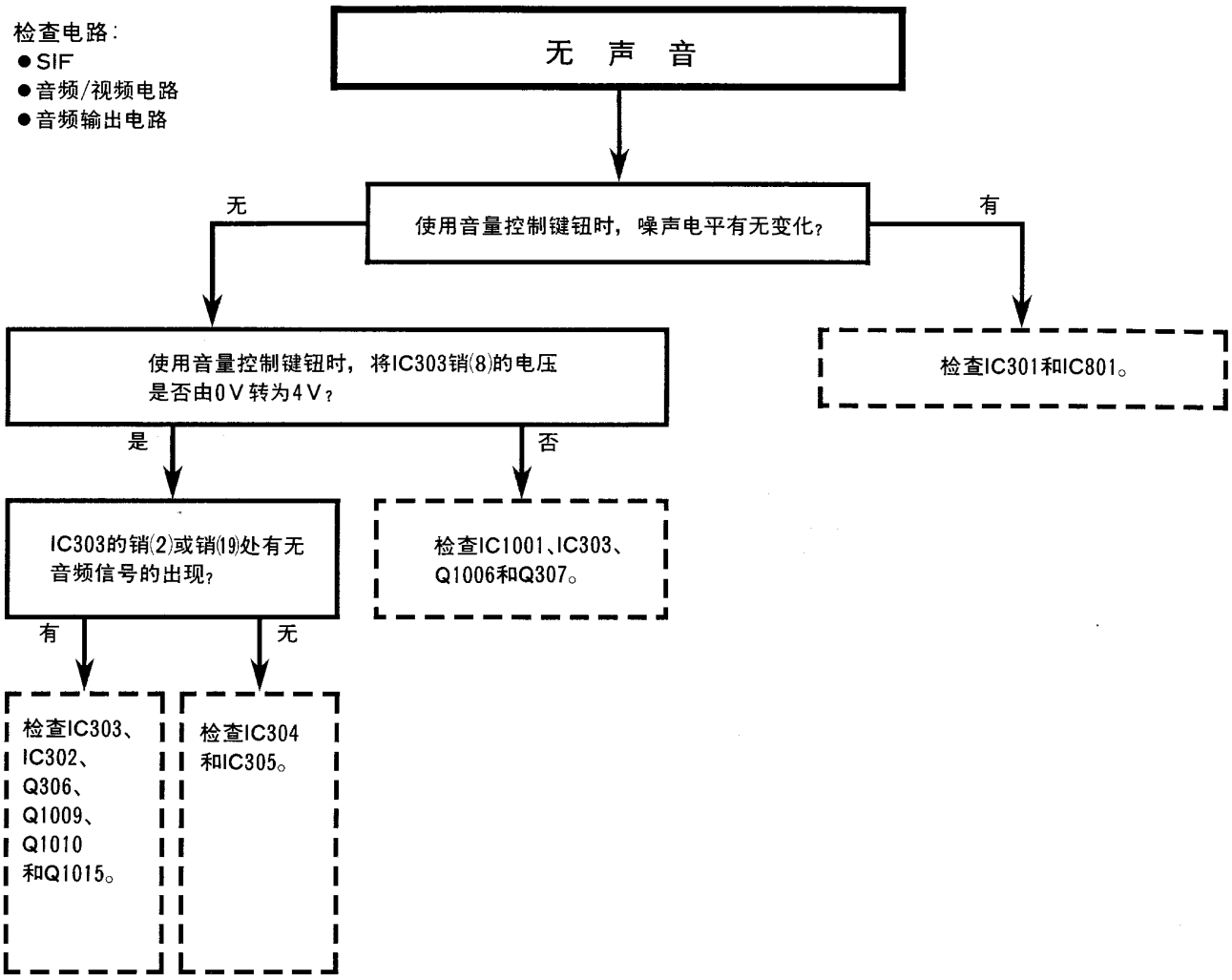
检查电路：
- IC801及其邻接电路
- 红、绿、蓝色信号输出电路



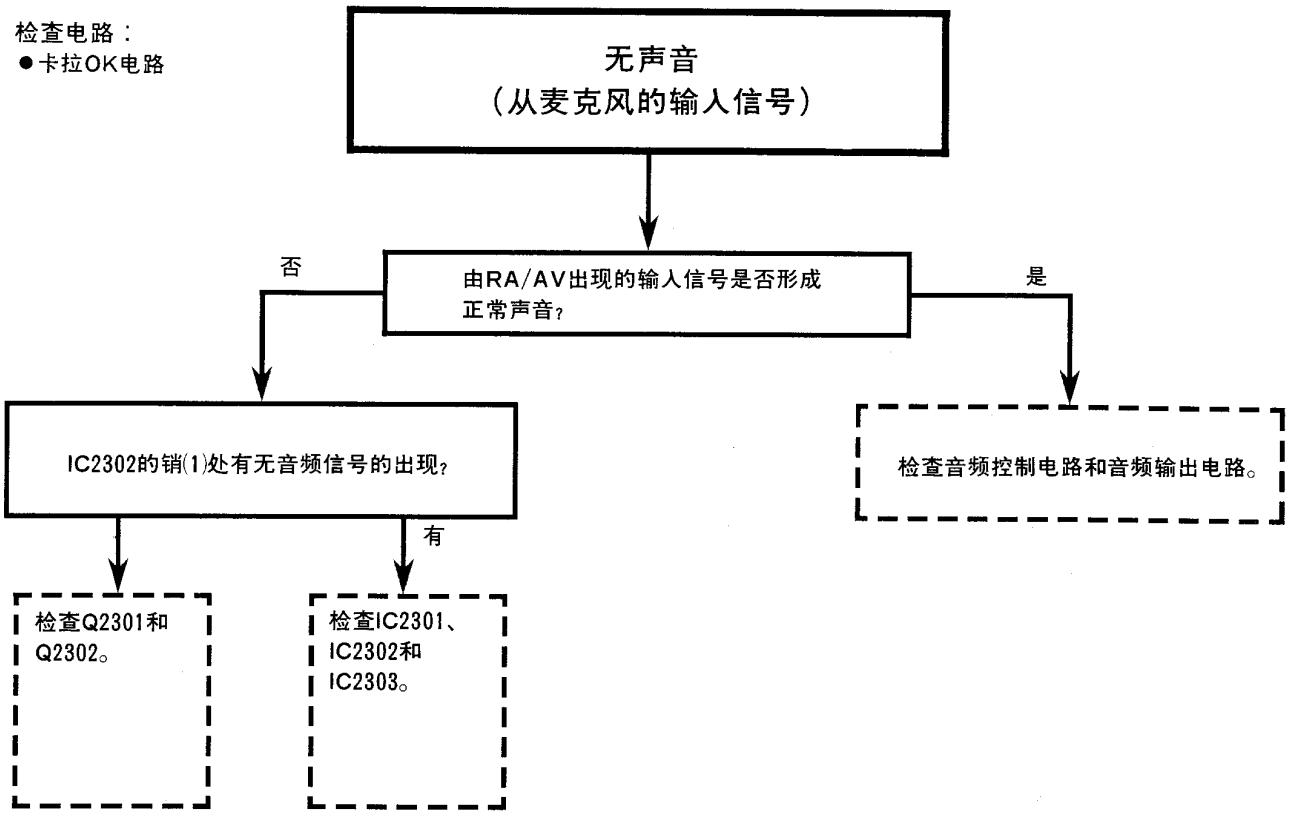
检查电路：
●IC501及其邻接电路



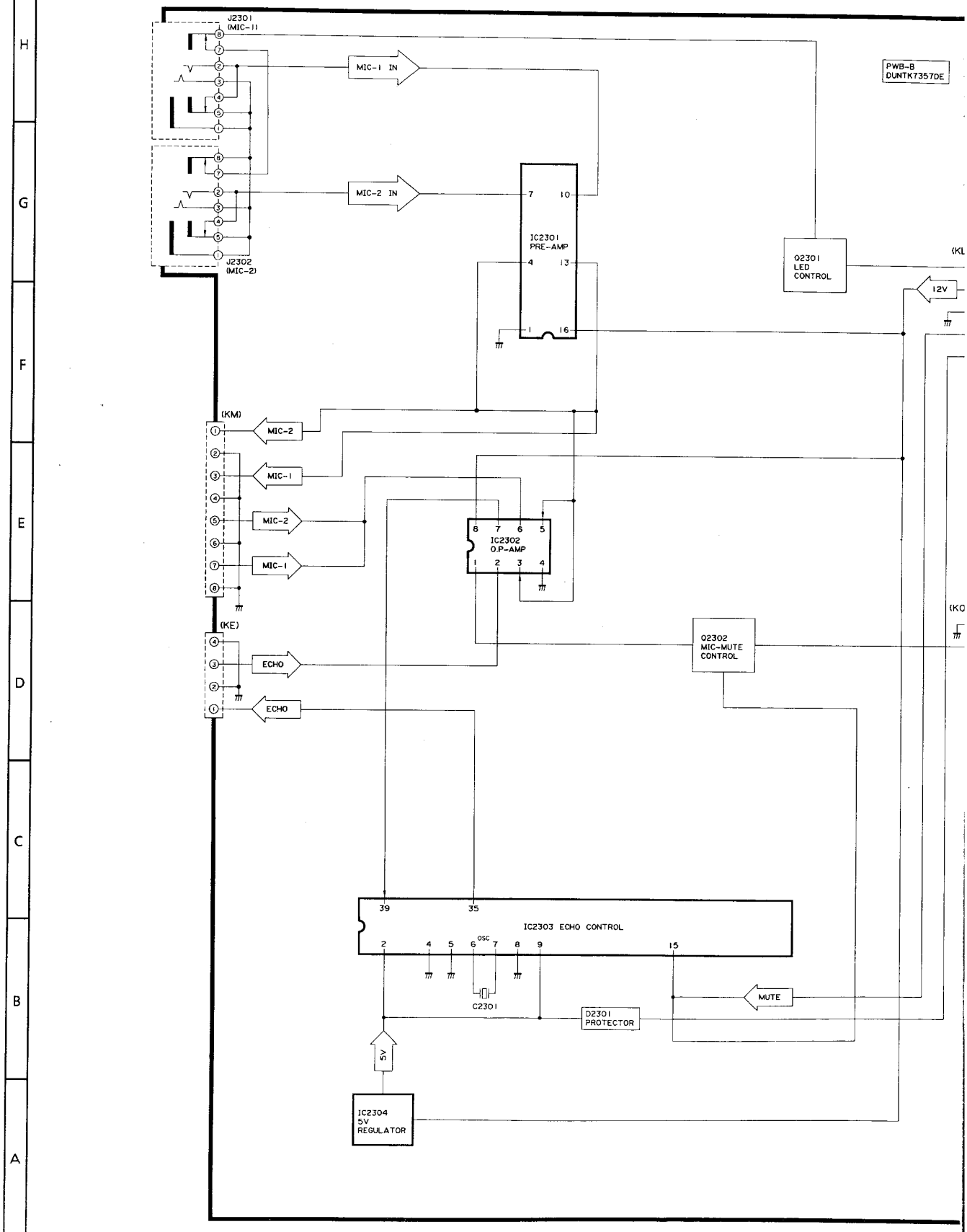
检查电路：
- SIF
- 音频/视频电路
- 音频输出电路

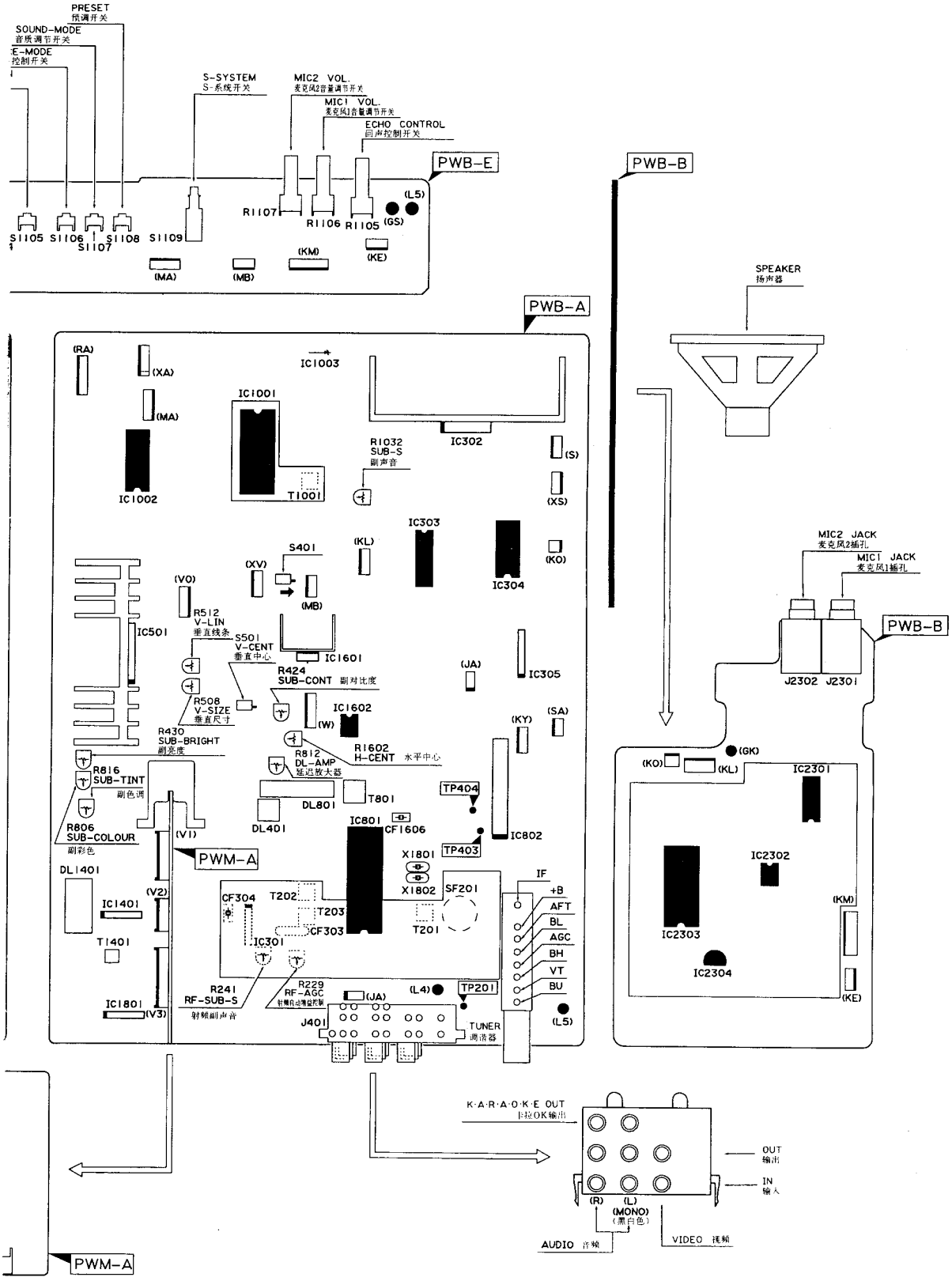


检查电路：
● 卡拉OK电路

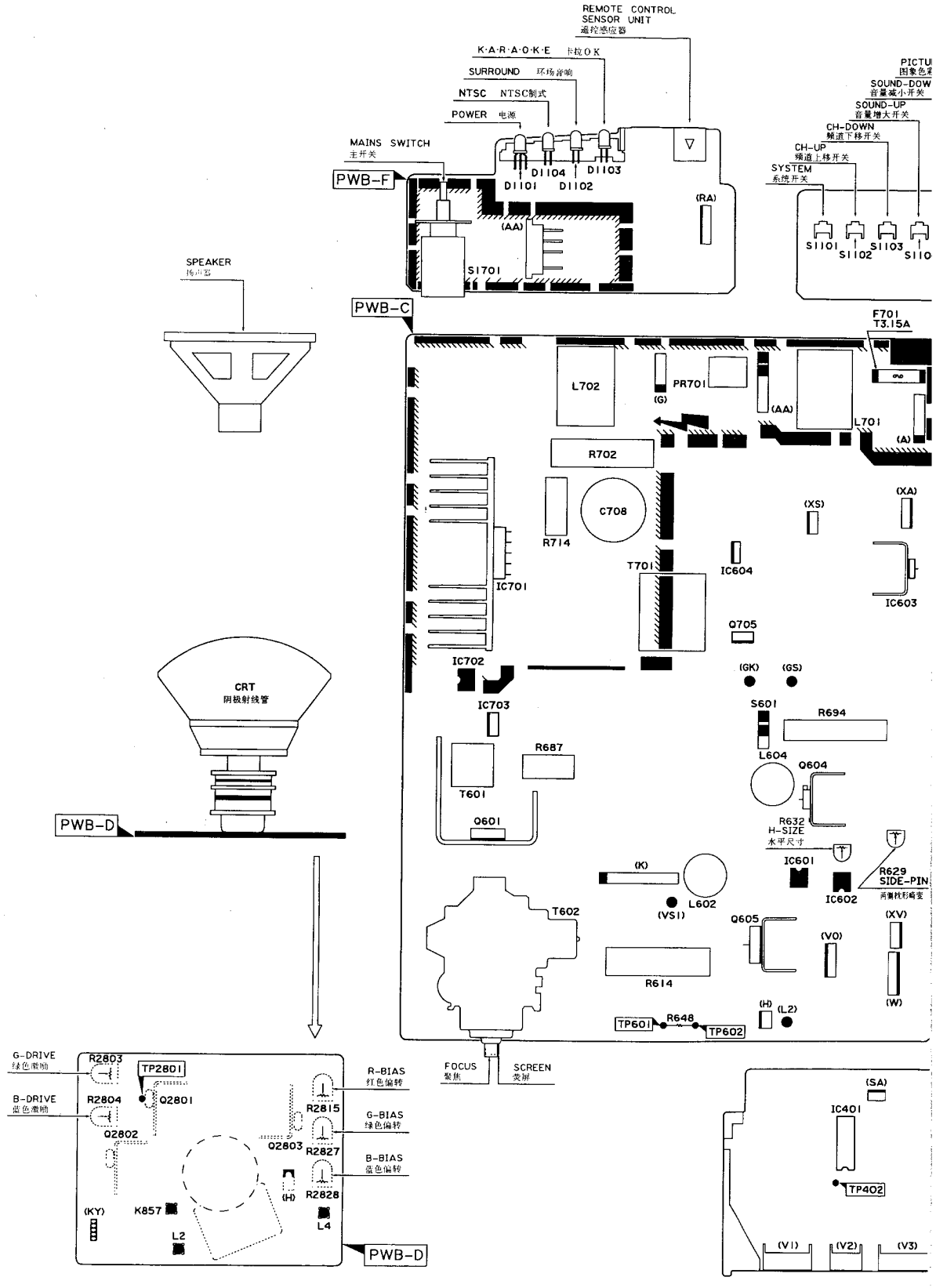

无声音
（从麦克风的输入信号）
由RA/AV出现的输入信号是否形成
正常声音？
否
是
IC2302的销(1)处有无音频信号的出现？
有
检查音频控制电路和音频输出电路。
检查Q2301和
Q2302。
检查IC2301、
IC2302和
IC2303。

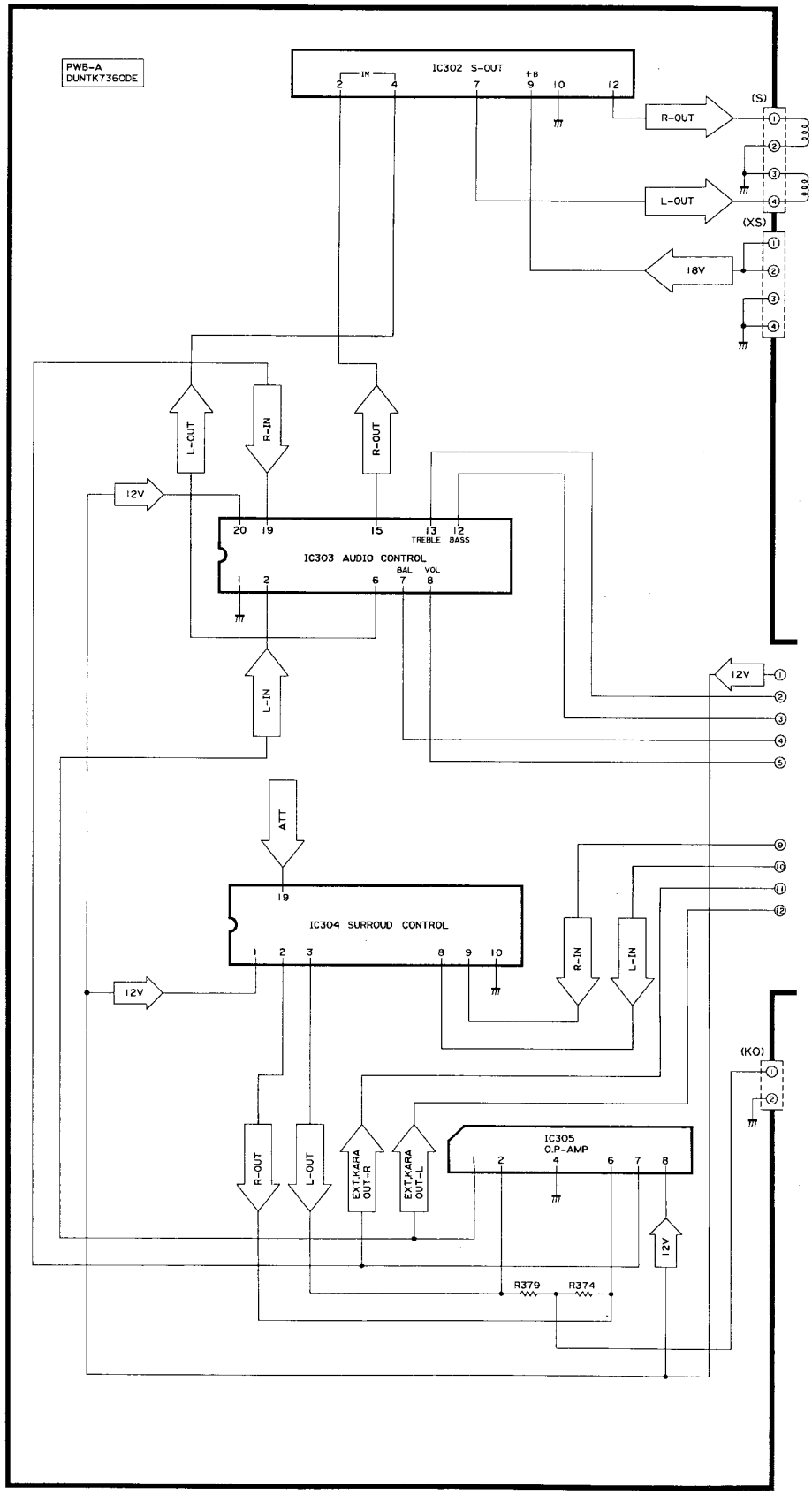
BLOCK DIAGRAM: MAIN3, KARAOKE




PRESET
预调开关
SOUND-MODE
音质调节开关
E-MODE
控制开关
S-SYSTEM
S-系统开关
MIC2 VOL.
麦克风2音量调节开关
MIC1 VOL.
麦克风1音量调节开关
ECHO CONTROL
回声控制开关
PWB-E
PWB-B
PWB-A
S1105
S1106
S1107
S1108
S1109
R1107
R1106
R1105
(L5)
(GS)
(KM)
(KE)
(MA)
(MB)
SPEAKER
扬声器
(RA)
(XA)
IC1003
IC1001
IC302
R1032
SUB-S
副声音
(S)
(XS)
IC1002
T1001
IC303
S401
(KL)
(KO)
(XV)
IC304
(VO)
(MB)
R512
V-LIN
垂直线条
IC501
S501
V-CENT
垂直中心
IC1601
(JA)
IC305
R424
SUB-CONT
副对比度
R508
V-SIZE
垂直尺寸
IC1602
(W)
(KY)
(SA)
R430
SUB-BRIGHT
副亮度
R1602
H-CENT
水平中心
R812
DL-AMP
延迟放大器
R816
SUB-TINT
副色调
DL801
T801
TP404
DL401
IC801
CF1606
IC802
R806
SUB-COLOUR
副彩色
(V1)
PWM-A
TP403
X1801
X1802
SF201
IF
DL1401
(V2)
CF304
T202
T203
CF303
T201
+B
AFT
BL
AGC
BH
VT
BU
IC1401
T1401
IC301
R241
RF-SUB-S
射频副声音
R229
RF-AGC
(JA)
(L4)
TP201
IC1801
(V3)
J401
TUNER
调谐器
(L5)
MIC2 JACK
麦克风2插孔
MIC1 JACK
麦克风1插孔
J2302
J2301
(GK)
(KO)
(KL)
IC2301
IC2302
(KM)
IC2303
IC2304
(KE)
K·A·R·A·O·K·E OUT
卡拉OK输出
OUT
输出
IN
输入
(R)
(L)
(MONO)
(黑白色)
AUDIO 音频
VIDEO 视频
PWM-A

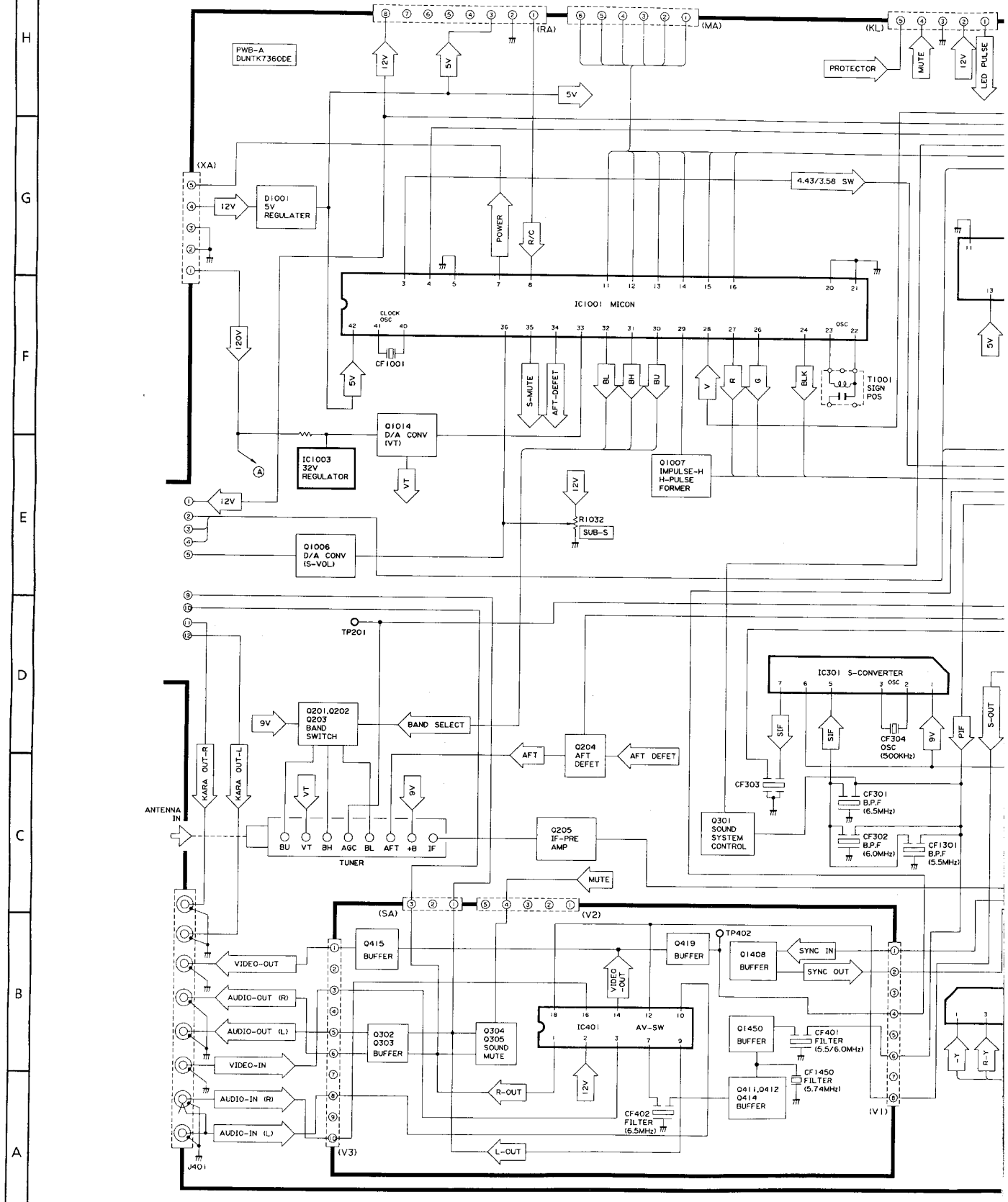
CHASSIS LAYOUT 机芯底盘电路图




PWB-A
DUNTK736ODE
IC302 S-OUT
IN
+B
2
4
7
9
10
12
R-OUT
L-OUT
18V
(S)
SP (R)
SP (L)
(XS)
L-OUT
R-IN
R-OUT
12V
IC303 AUDIO CONTROL
20
19
15
13 TREBLE
12 BASS
1
2
6
BAL 7
VOL 8
L-IN
ATT
IC304 SURROUD CONTROL
19
1
2
3
8
9
10
(KO)
IC305 O.P-AMP
4
6
7
EXT.KARA OUT-R
EXT.KARA OUT-L
R379
R374

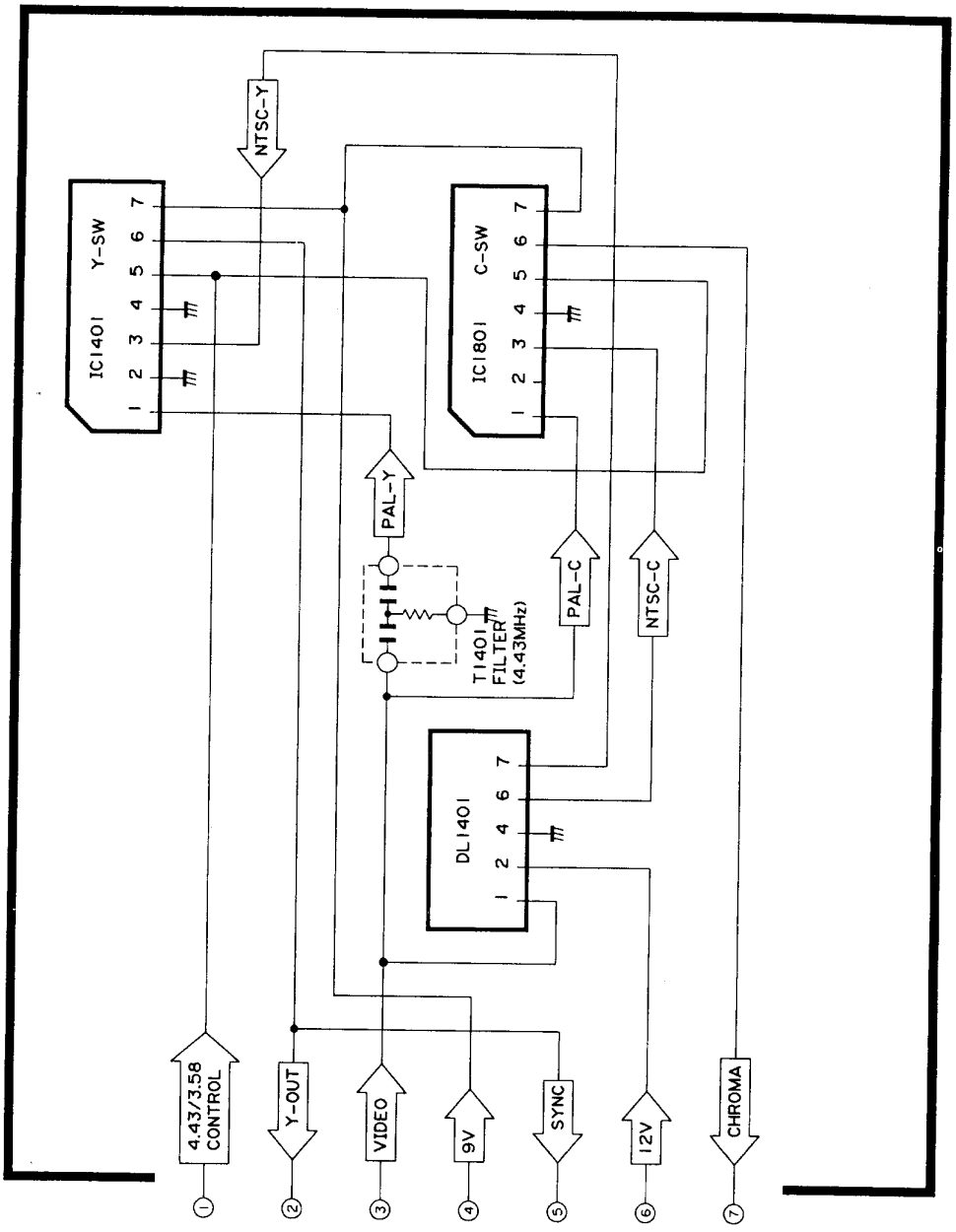
	7	8	9	10	11	12

BLOCK DIAGRAM: MAIN 1

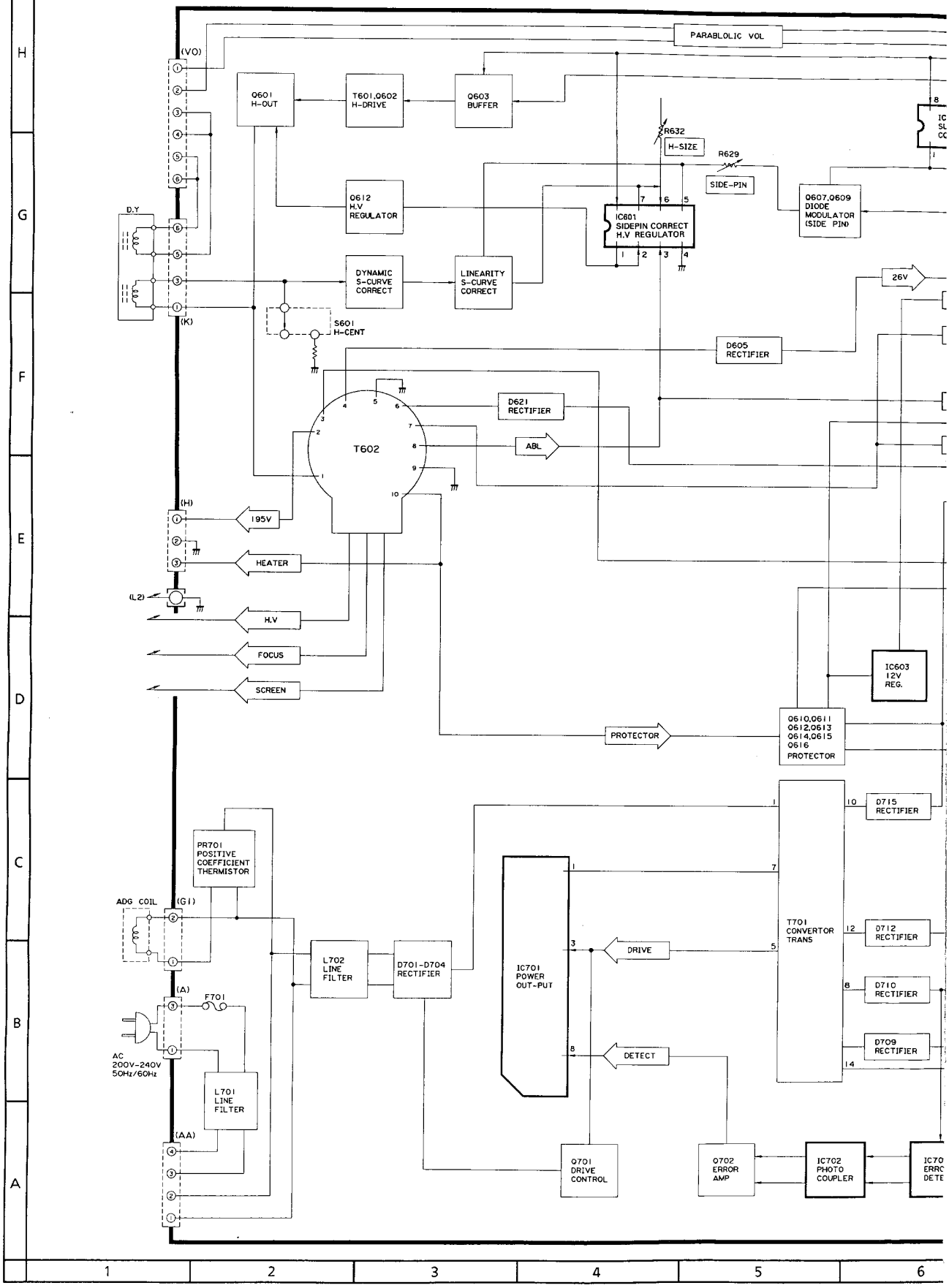


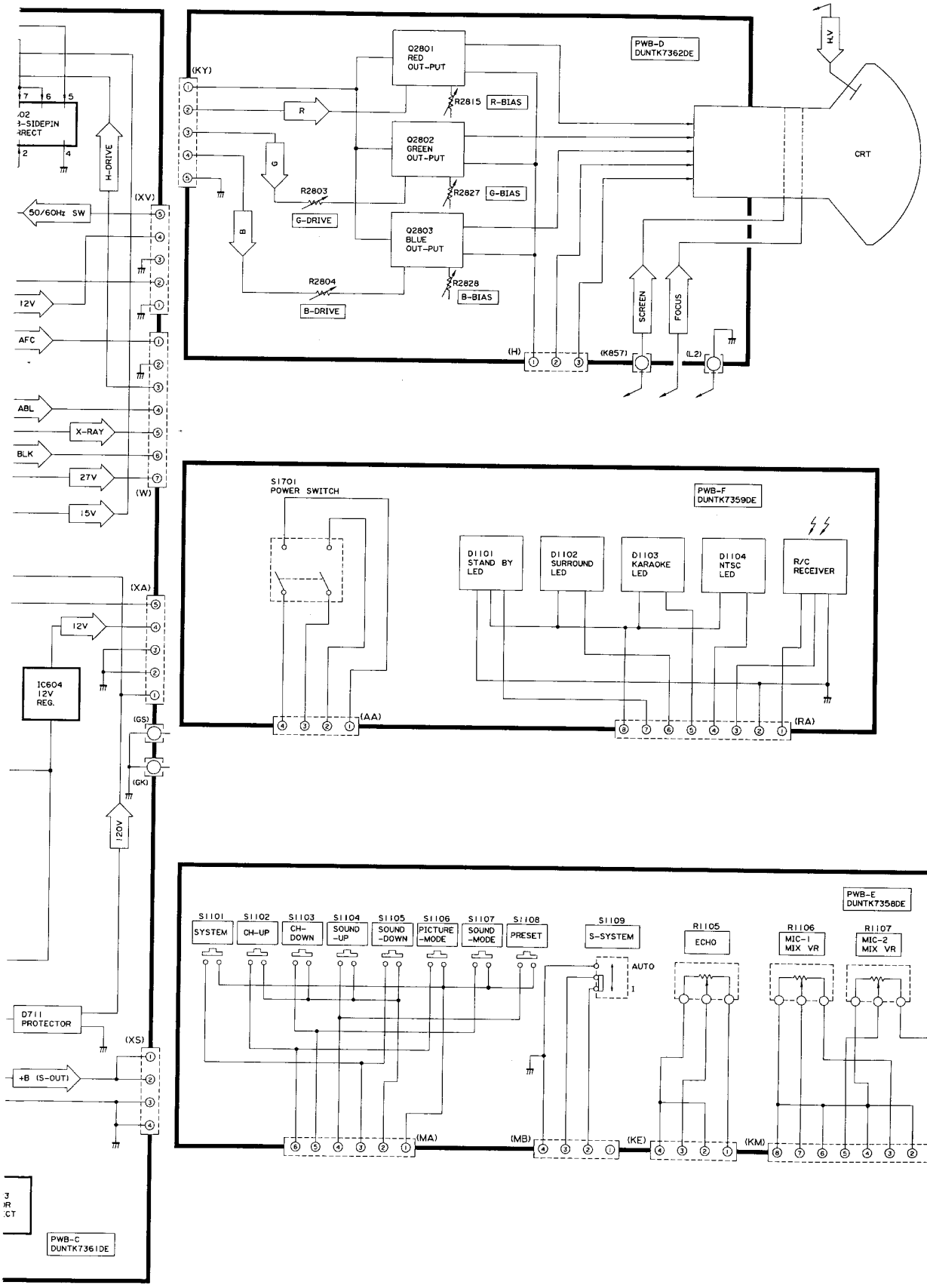
Memo
备 忘

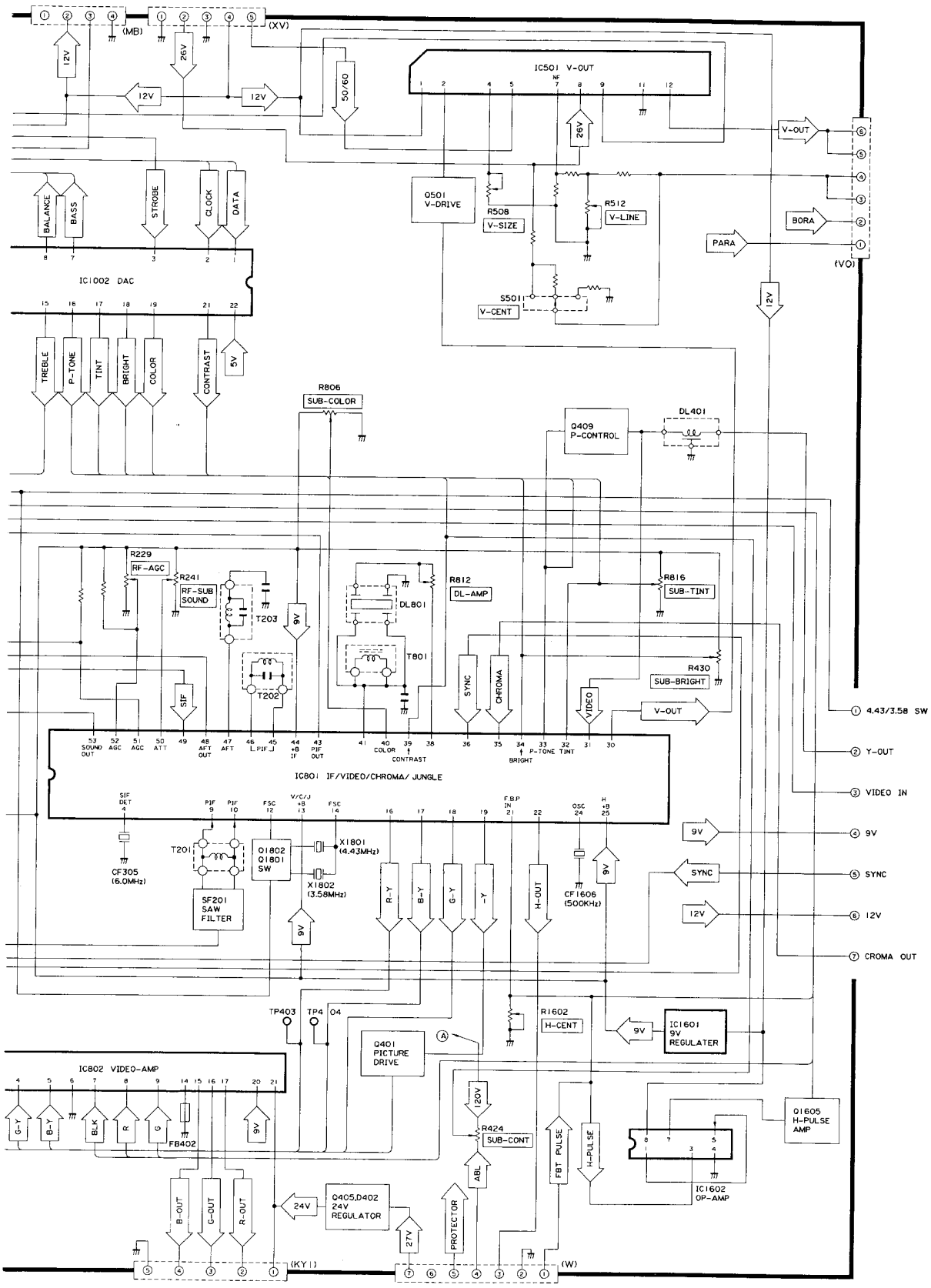
BLOCK DIAGRAM: MAIN 2



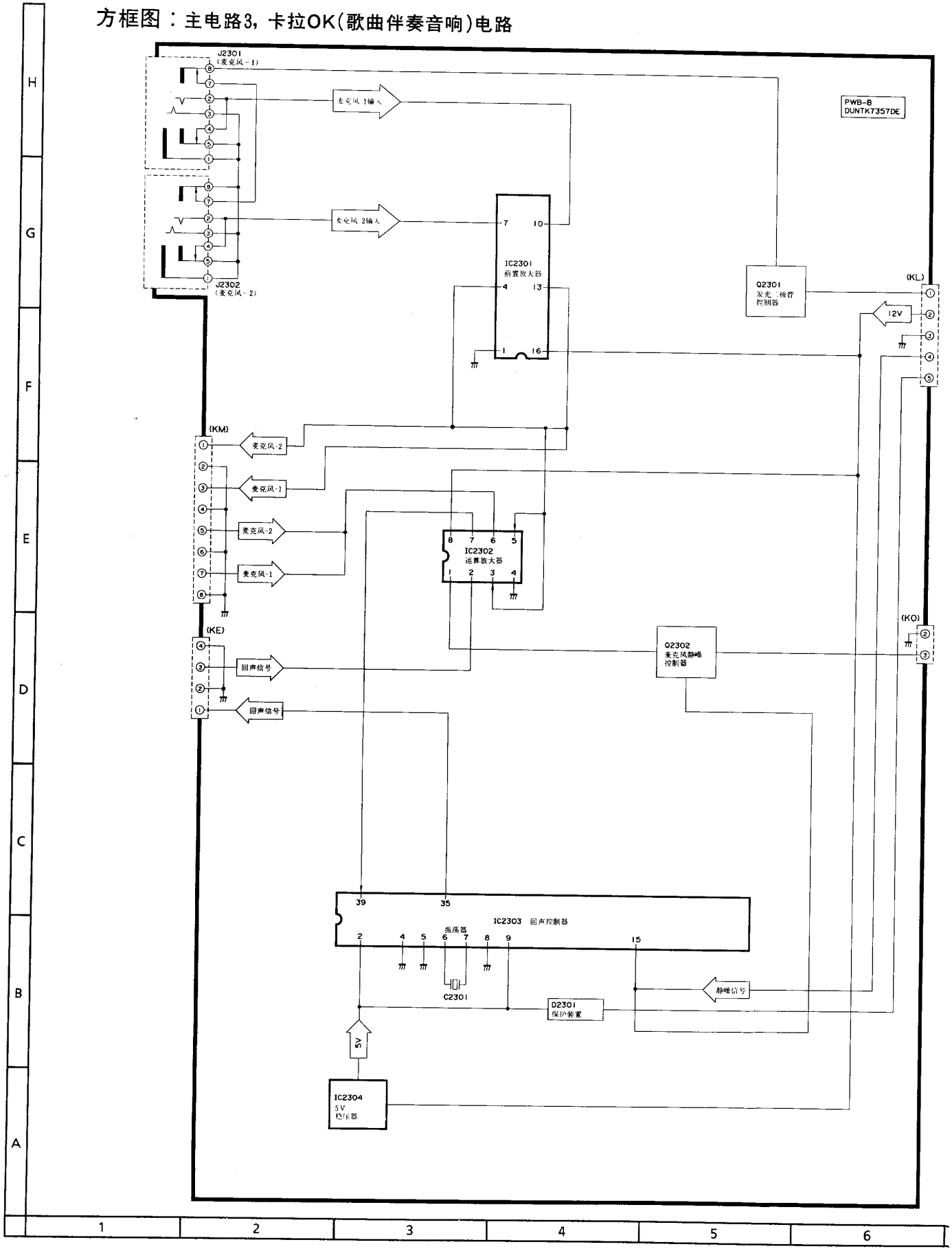
BLOCK DIAGRAM: POWER, CRT, LED, CONTROL

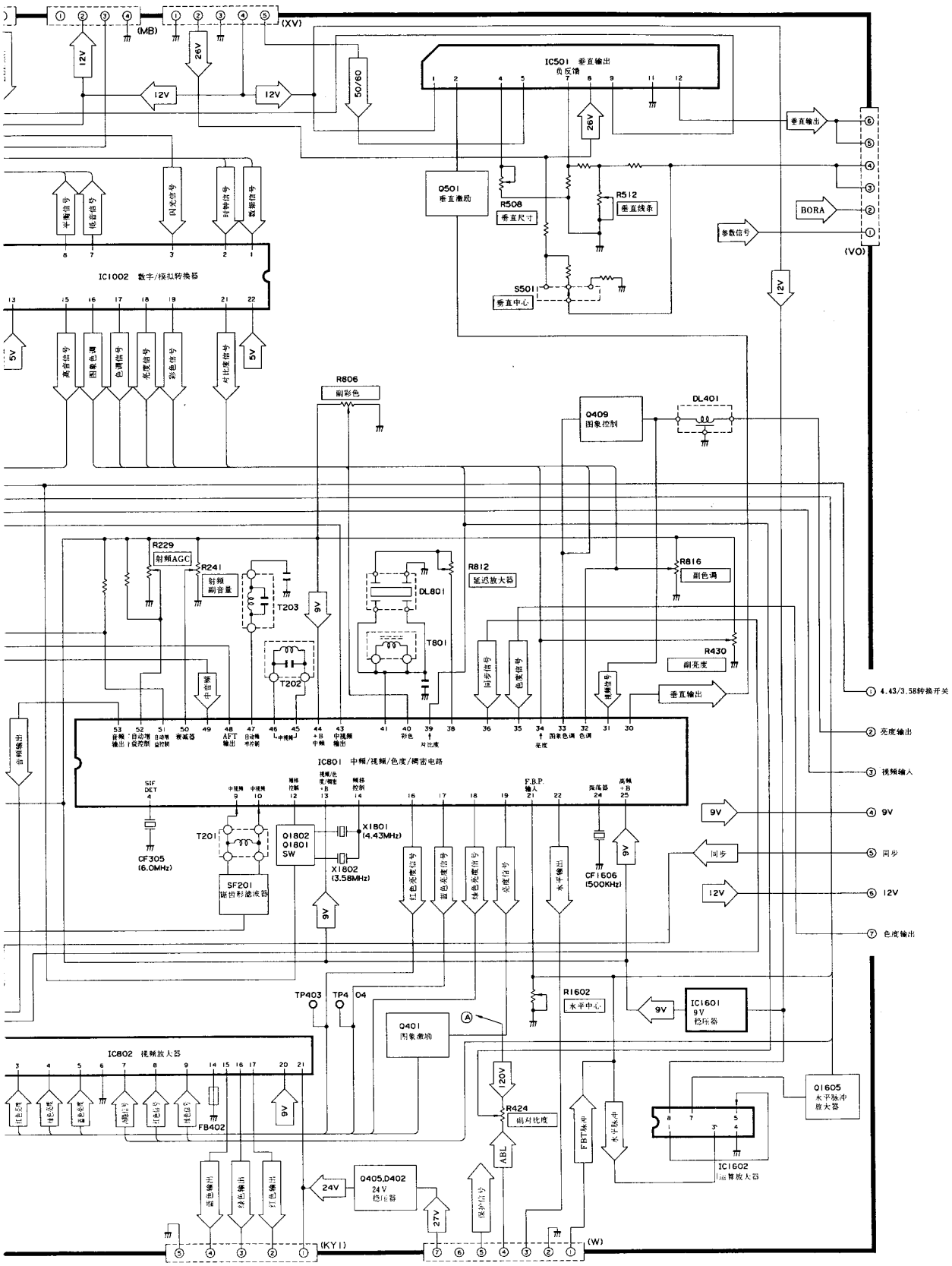



PWB-D
DUNTK7362DE
Q2801
RED
OUT-PUT
Q2802
GREEN
OUT-PUT
Q2803
BLUE
OUT-PUT
R2815
R-BIAS
R2827
G-BIAS
R2828
B-BIAS
R2803
G-DRIVE
R2804
B-DRIVE
R
G
B
(KY)
H.V
CRT
SCREEN
FOCUS
(H)
(K857)
(L2)
H-DRIVE
(XV)
50/60Hz SW
12V
AFC
ABL
X-RAY
BLK
27V
15V
(W)
S1701
POWER SWITCH
PWB-F
DUNTK7359DE
D1101
STAND BY
LED
D1102
SURROUND
LED
D1103
KARAOKE
LED
D1104
NTSC
LED
R/C
RECEIVER
(AA)
(RA)
(XA)
IC604
12V
REG.
(GS)
(GK)
120V
D711
PROTECTOR
(XS)
+B (S-OUT)
PWB-C
DUNTK7361DE
PWB-E
DUNTK7358DE
S1101
SYSTEM
S1102
CH-UP
S1103
CH-
DOWN
S1104
SOUND
-UP
S1105
SOUND
-DOWN
S1106
PICTURE
-MODE
S1107
SOUND
-MODE
S1108
PRESET
S1109
S-SYSTEM
AUTO
1
R1105
ECHO
R1106
MIC-1
MIX VR
R1107
MIC-2
MIX VR
(MA)
(MB)
(KE)
(KM)


(MB)
(XV)
12V
26V
50/60
IC501 V-OUT
V-OUT
Q501 V-DRIVE
R508 V-SIZE
R512 V-LINE
S501 V-CENT
BORA
PARA
(VO)
BAL-ANCE
BASS
STROBE
CLOCK
DATA
IC1002 DAC
TREBLE
P-TONE
TINT
BRIGHT
COLOR
CONTRAST
5V
R806 SUB-COLOR
Q409 P-CONTROL
DL401
R229 RF-AGC
R241 RF-SUB SOUND
T203
T202
DL801
T801
R812 DL-AMP
R816 SUB-TINT
R430 SUB-BRIGHT
SYNC
CHROMA
VIDEO
SIF
9V
IC801 IF/VIDEO/CHROMA/ JUNGLE
CF305 (6.0MHz)
T201
Q1802 Q1801 SW
X1801 (4.43MHz)
X1802 (3.58MHz)
SF201 SAW FILTER
R-Y
B-Y
G-Y
-Y
H-OUT
CF1606 (500KHz)
4.43/3.58 SW
Y-OUT
VIDEO IN
9V
SYNC
12V
CROMA OUT
TP403
TP4
Q4
R1602 H-CENT
IC1601 9V REGULATER
Q401 PICTURE DRIVE
IC802 VIDEO-AMP
G-Y
B-Y
BLK
R
G
F8402
120V
R424 SUB-CONT
ABL
FBT PULSE
H-PULSE
Q1605 H-PULSE AMP
IC1602 OP-AMP
B-OUT
G-OUT
R-OUT
24V
Q405,D402 24V REGULATOR
27V
PROTECTOR
(KY1)
(W)

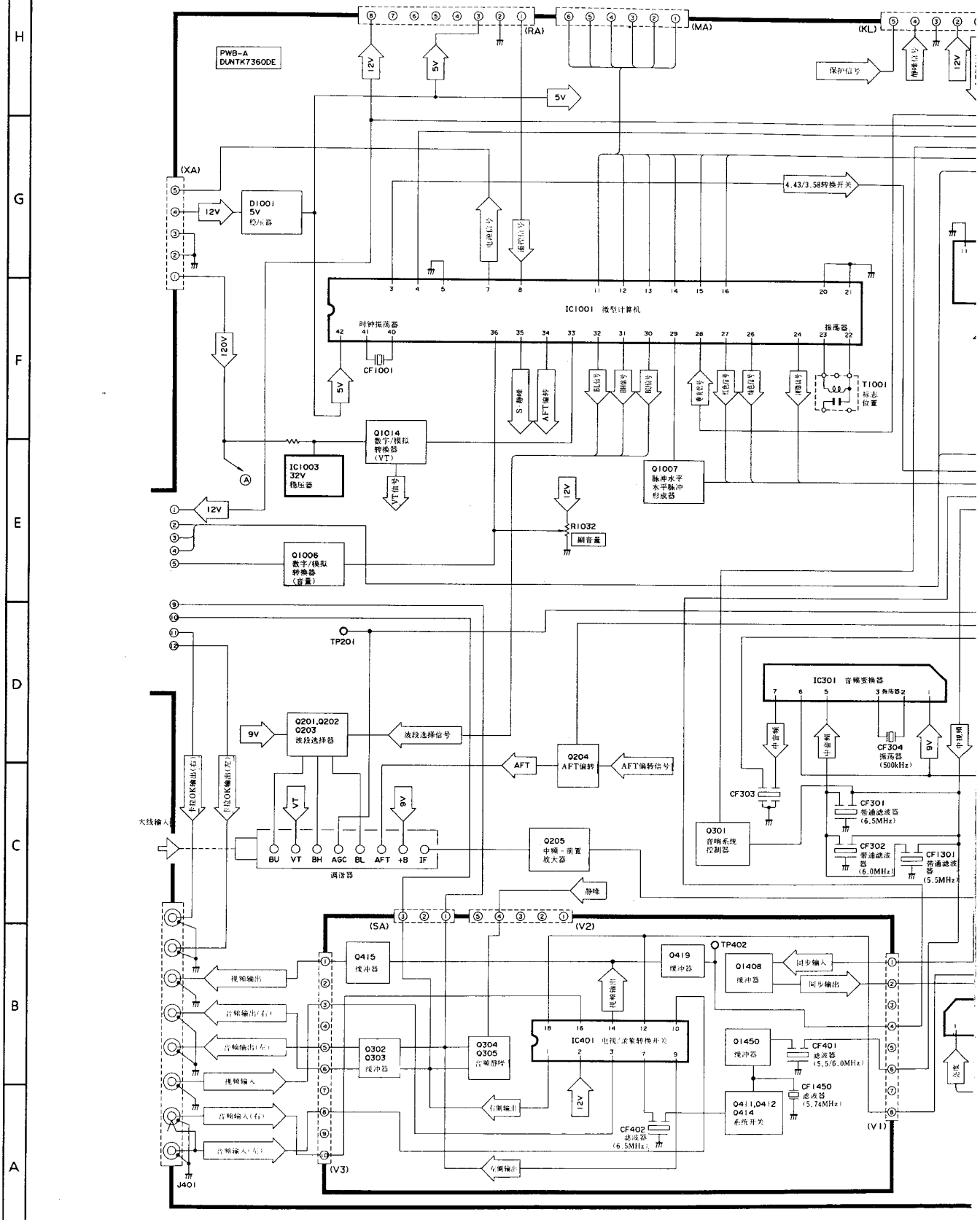
方框图：主电路3，卡拉OK(歌曲伴奏音响)电路

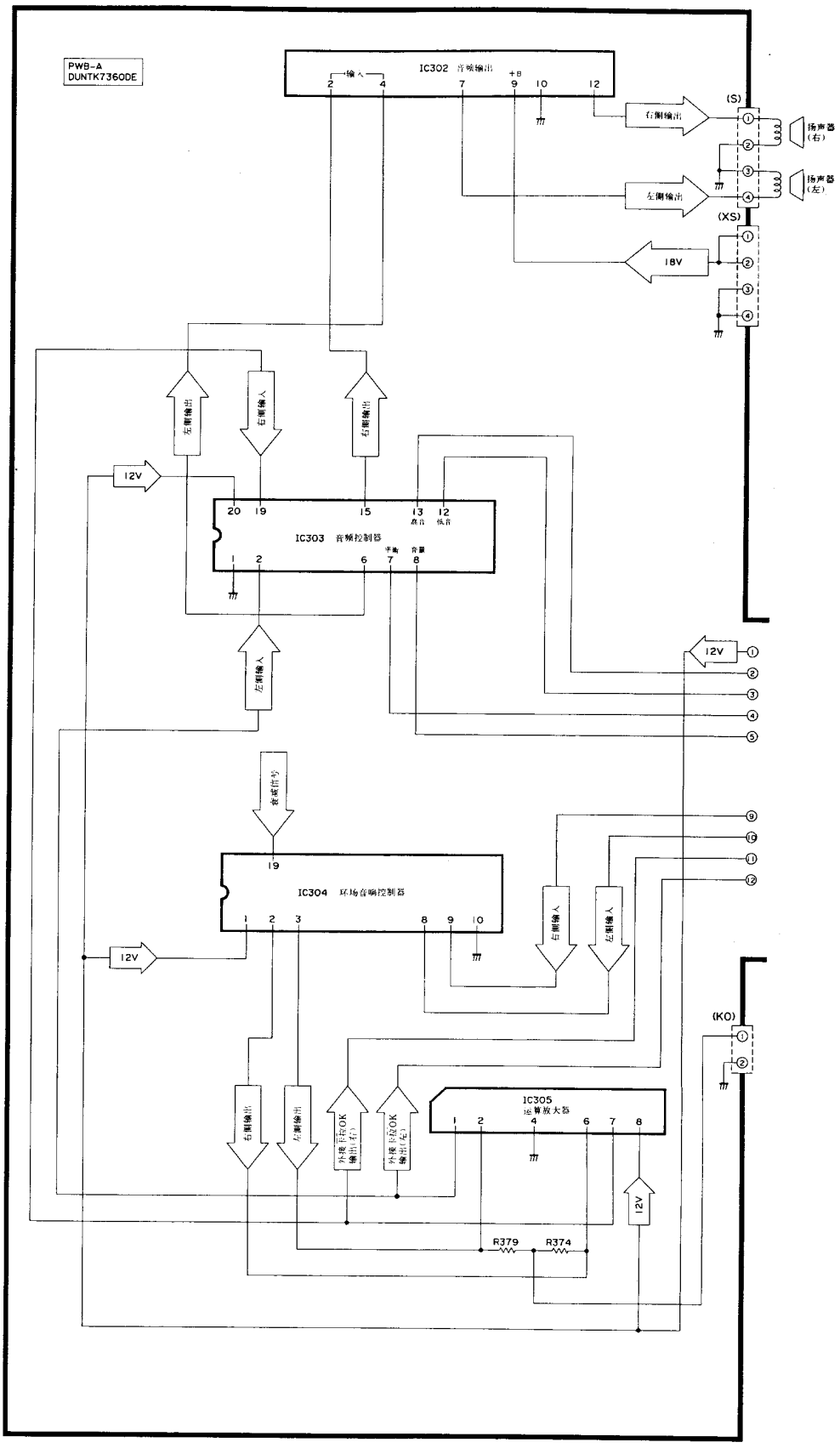



(MB)
(XV)
12V
26V
50/60
IC501 垂直输出
负反馈
垂直输出
Q501
垂直激励
R508
垂直尺寸
R512
垂直线条
BORA
参数信号
(VO)
S501
垂直中心
IC1002 数字/模拟转换器
5V
R806
副彩色
Q409
图象控制
DL401
R229
射频AGC
R241
射频
副音量
T203
T202
DL801
T801
R812
延迟放大器
R816
副色调
R430
副亮度
垂直输出
4.43/3.58转换开关
亮度输出
视频输入
9V
同步
12V
色度输出
IC801 中频/视频/色度/偏密电路
SIF
DET
T201
CF305
(6.0MHz)
SF201
01802
01801
SW
X1801
(4.43MHz)
X1802
(3.58MHz)
CF1606
(500KHz)
TP403
TP4
04
R1602
水平中心
IC1601
9V
稳压器
Q401
图象激励
IC802 视频放大器
FB402
R424
副对比度
ABL
01605
水平脉冲
放大器
IC1602
运算放大器
24V
Q405,D402
24V
稳压器
27V
(KY1)
(W)

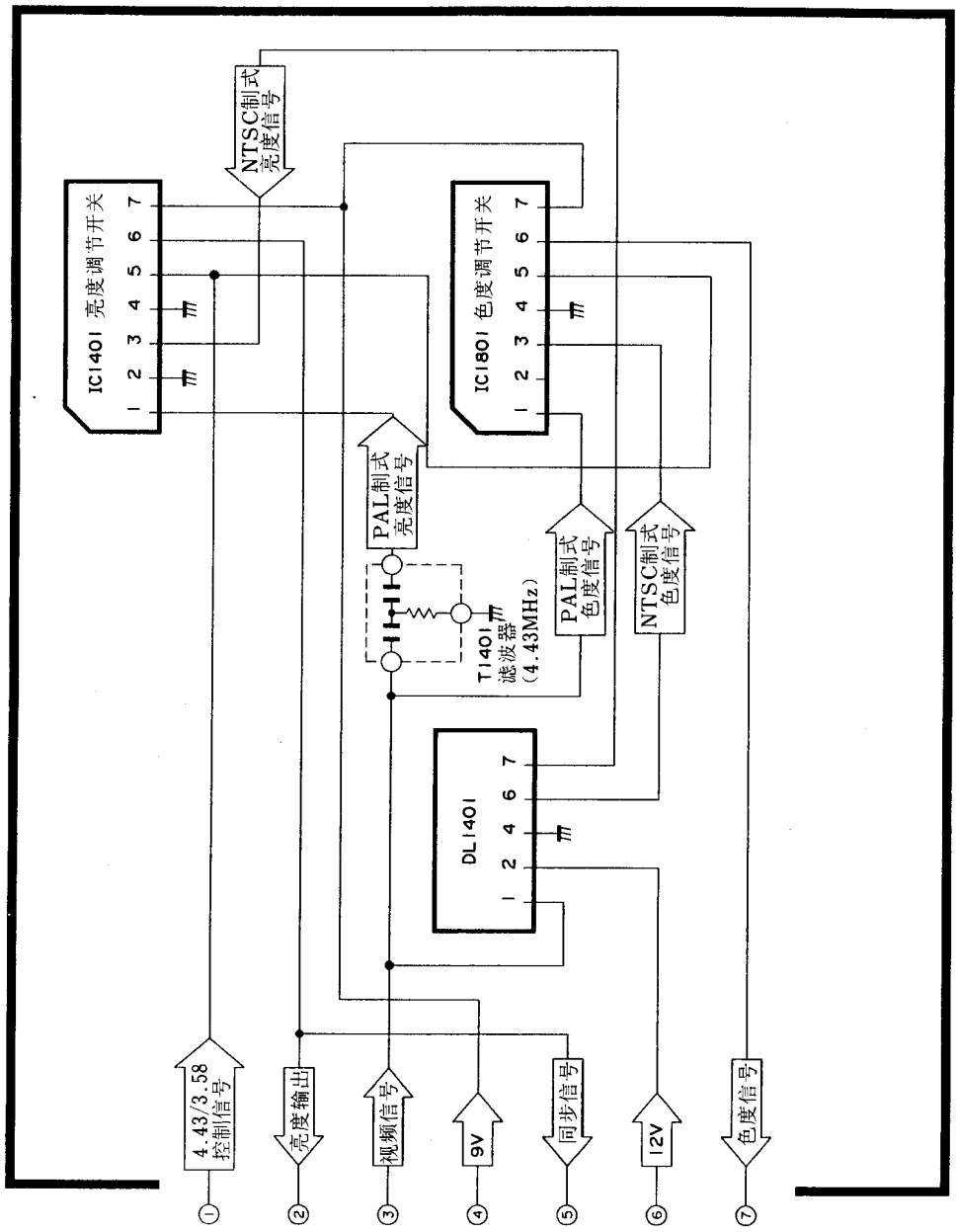
	7	8	9	10	11	12

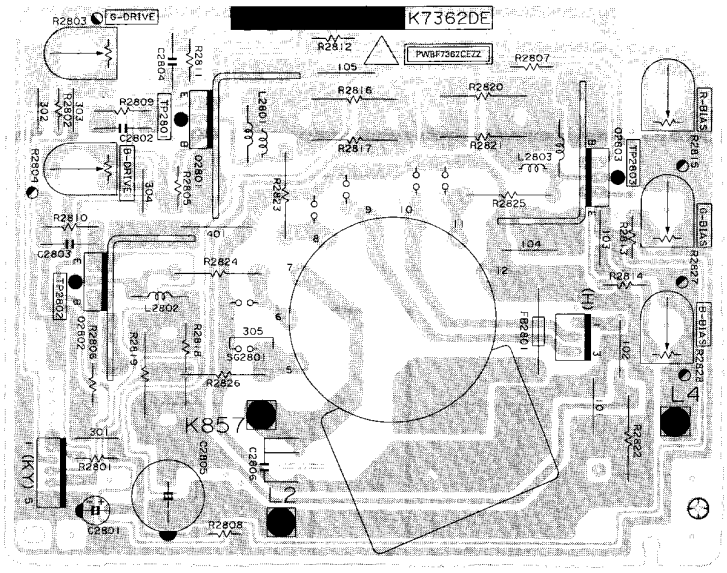
方框图：主电路1


PWB-A
DUNTK7360DE
(RA)
(MA)
(KL)
(XA)
(SA)
(V1)
(V2)
(V3)
12V
5V
9V
D1001
5V
稳压器
IC1001 微型计算机
时钟振荡器
CF1001
振荡器
T1001
标志位置
4.43/3.58转换开关
保护信号
Q1014
数字/模拟
转换器
(VT)
VT信号
IC1003
32V
稳压器
Q1007
脉冲水平
水平脉冲
形成器
R1032
副音量
Q1006
数字/模拟
转换器
(音量)
TP201
Q201,Q202
Q203
波段选择器
波段选择信号
AFT
Q204
AFT偏转
AFT偏转信号
FEIOK输出(右)
FEIOK输出(左)
天线输入
BU VT BH AGC BL AFT +B IF
调谐器
Q205
中频一前置
放大器
静噪
IC301 音频变换器
CF304
振荡器
(500kHz)
CF303
CF301
带通滤波器
(6.5MHz)
CF302
带通滤波
器
(6.0MHz)
CF1301
带通滤波
器
(5.5MHz)
Q301
音响系统
控制器
Q415
缓冲器
Q419
缓冲器
TP402
Q1408
缓冲器
同步输入
同步输出
视频输出
音频输出(右)
音频输出(左)
视频输入
音频输入(右)
音频输入(左)
J401
Q302
Q303
缓冲器
Q304
Q305
音响静噪
IC401 电视广播接收转换开关
Q1450
缓冲器
CF401
滤波器
(5.5/6.0MHz)
CF1450
滤波器
(5.74MHz)
Q411,Q412
Q414
系统开关
CF402
滤波器
(6.5MHz)
右侧输出
左侧输出
电源信号
保护信号
S 静噪
AFT偏转
BL信号
BH信号
BU信号
绿色信号
蓝色信号
消隐信号
垂直信号

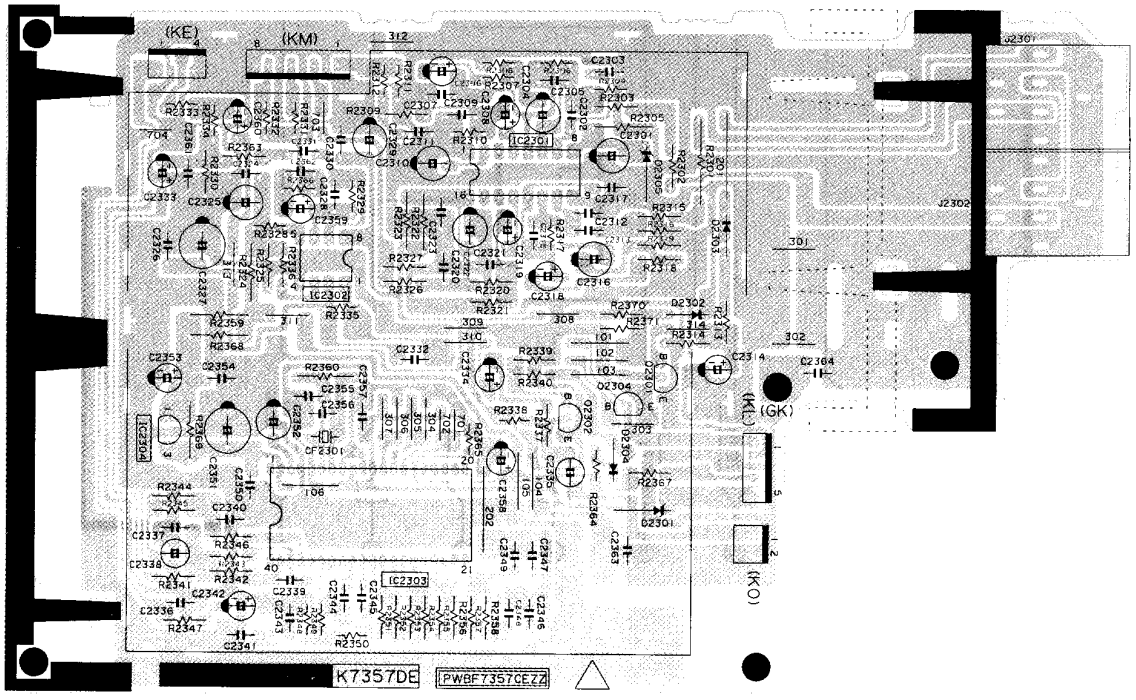

PWB-A
DUNTK7360DE
IC302 音频输出
输入
+B
2
4
7
9
10
12
右侧输出
左侧输出
(S)
扬声器(右)
扬声器(左)
(XS)
18V
左侧输出
右侧输入
右侧输出
12V
IC303 音频控制器
20
19
15
13
12
1
2
6
7
8
左侧输入
12V
音频信号
IC304 环场音响控制器
19
1
2
3
8
9
10
12V
右侧输入
左侧输入
(KO)
右侧输出
左侧输出
外接后音OK输出(右)
外接后音OK输出(左)
IC305 运算放大器
1
2
4
6
7
8
12V
R379
R374

方框图：主电路2

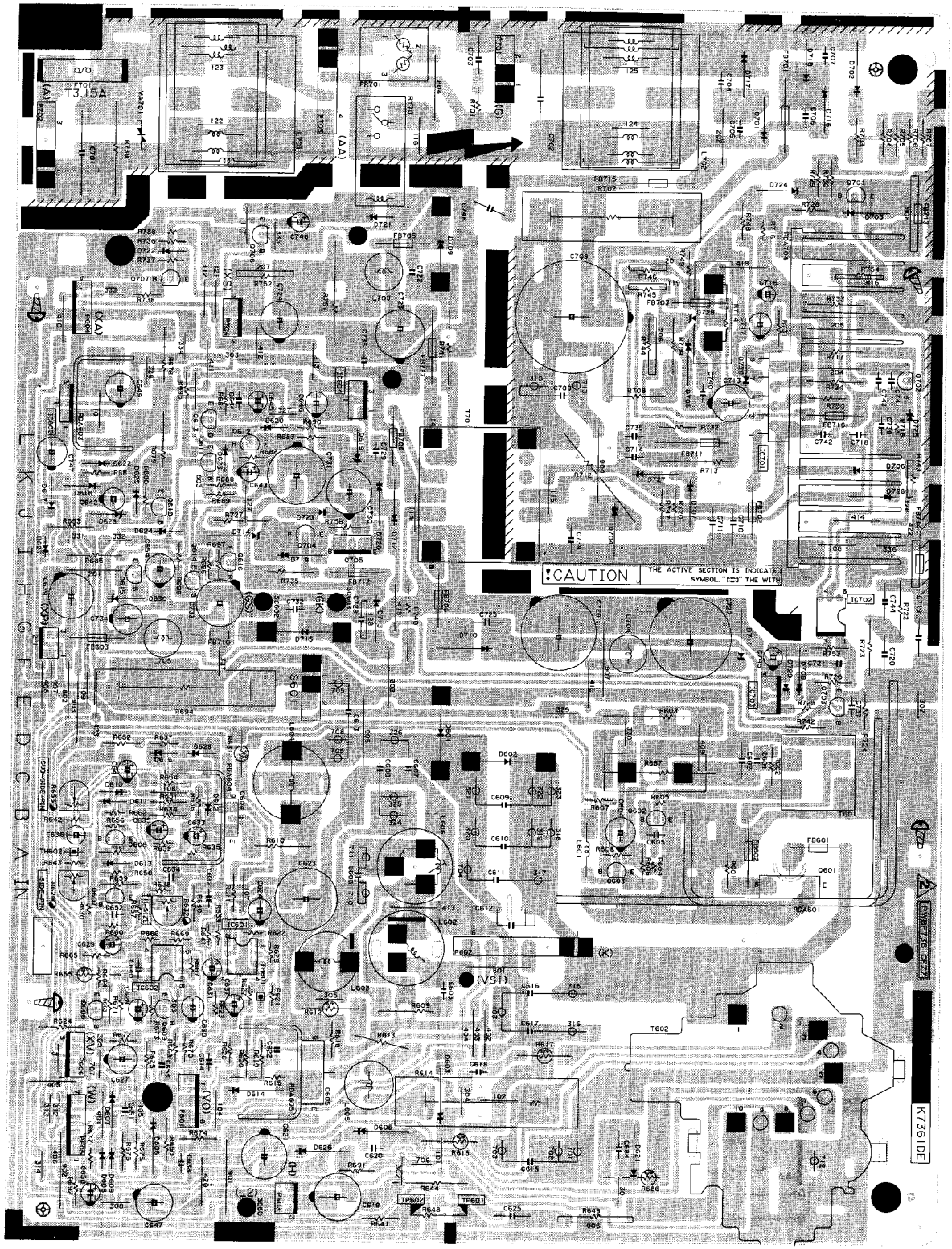

IC1401 亮度调节开关
1 2 3 4 5 6 7
NTSC制式亮度信号
IC1801 色度调节开关
1 2 3 4 5 6 7
PAL制式亮度信号
T1401滤波器（4.43MHz）
PAL制式色度信号
NTSC制式色度信号
DL1401
1 2 4 6 7
4.43/3.58控制信号
亮度输出
视频信号
9V
同步信号
12V
色度信号
①
②
③
④
⑤
⑥
⑦


K7362DE
PWBF7362CEZZ
G-DRIVE
R-BIAS
G-BIAS
B-BIAS
K857
L4
L2

PWB-D

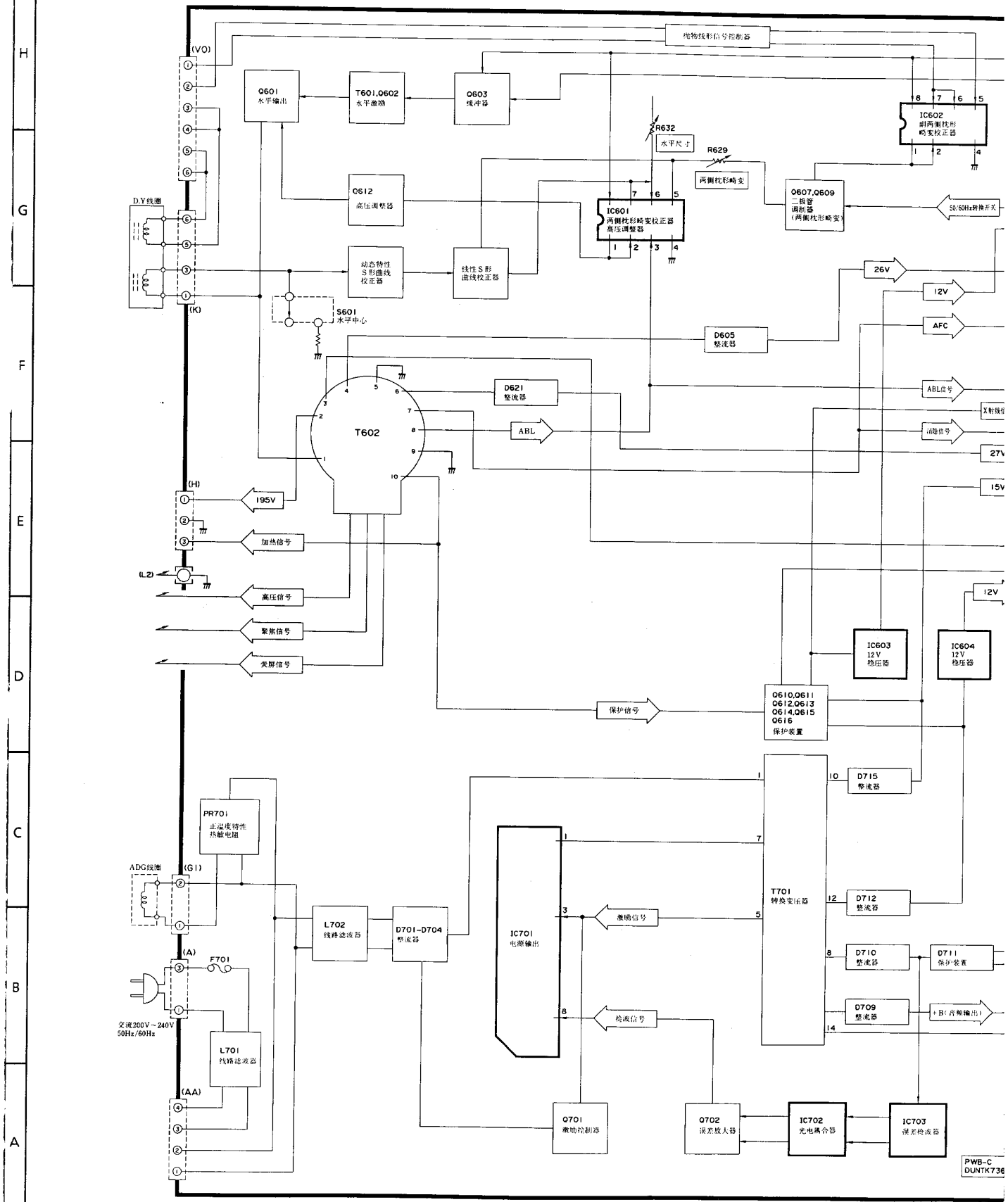

(KE)
(KM)
(GK)
(KL)
(KO)
(KY)
IC2301
IC2302
IC2303
IC2304
J2302
K7357DE
PWBF7357CEZZ

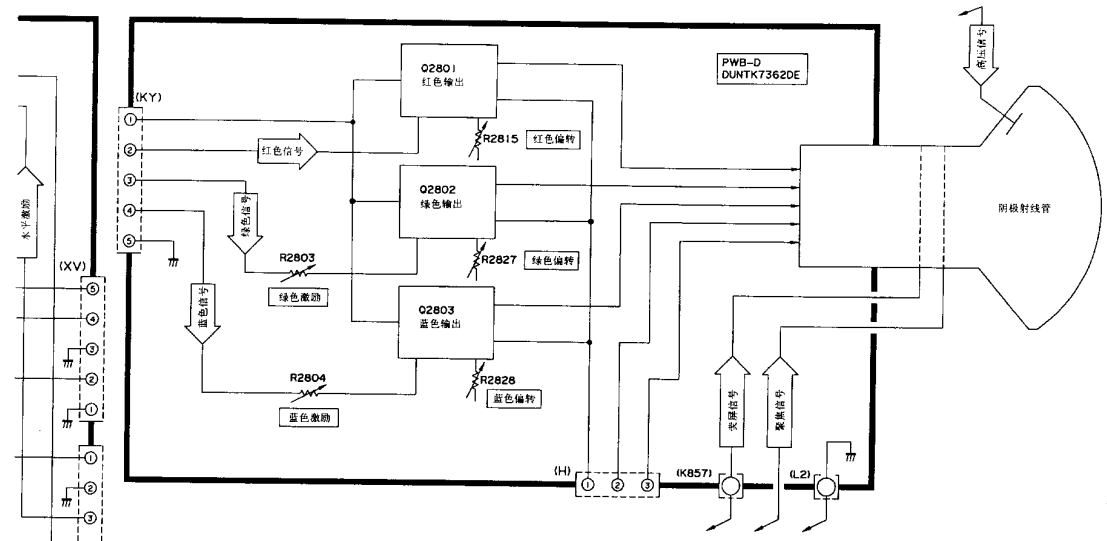
PWB-B

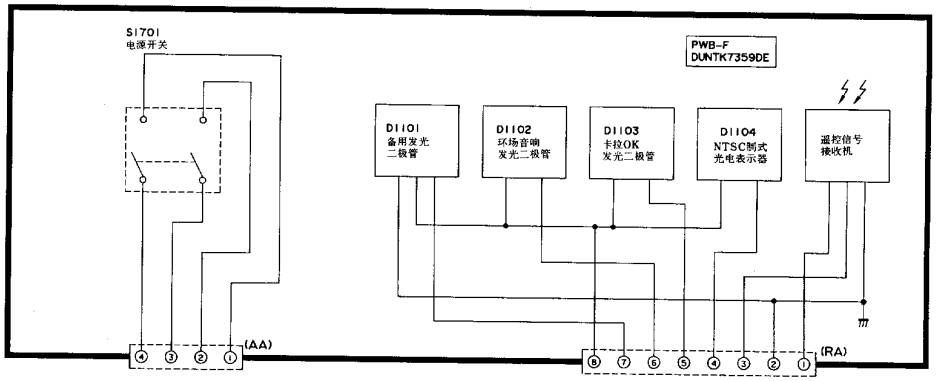

!CAUTION
THE ACTIVE SECTION IS INDICATED BY THE WITH SYMBOL.
K736IDE

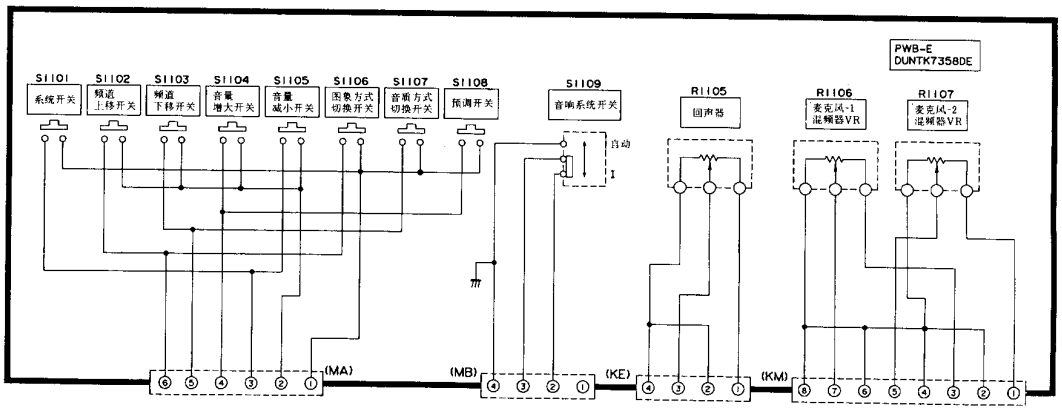
PWB-C

方框图：电源、阴极射线管、发光二极管和控制电路




PWB-D
DUNTK7362DE
02801
红色输出
02802
绿色输出
02803
蓝色输出
R2815
红色偏转
R2827
绿色偏转
R2828
蓝色偏转
R2803
绿色激励
R2804
蓝色激励
红色信号
绿色信号
蓝色信号
(KY)
(XV)
(W)
(H)
(K857)
(L2)
阴极射线管


PWB-F
DUNTK7359DE
S1701
电源开关
D1101
备用发光
二极管
D1102
环场音响
发光二极管
D1103
卡拉OK
发光二极管
D1104
NTSC制式
光电表示器
遥控信号
接收机
(XA)
(GS)
(GK)
(AA)
(RA)
120V

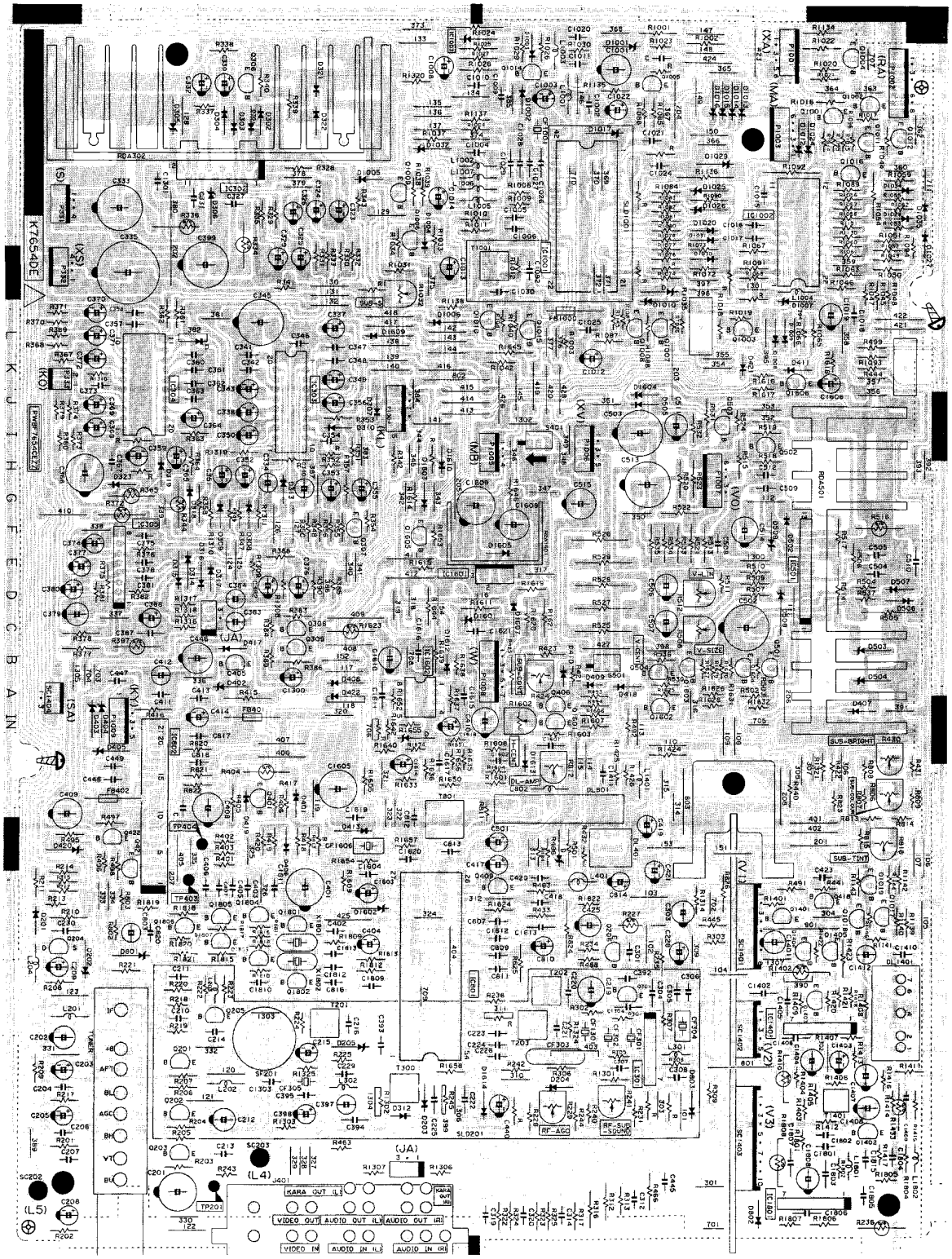

PWB-E
DUNTK7358DE
S1101
系统开关
S1102
频道
上移开关
S1103
频道
下移开关
S1104
音量
增大开关
S1105
音量
减小开关
S1106
图象方式
切换开关
S1107
音质方式
切换开关
S1108
预调开关
S1109
音响系统开关
自动
R1105
回声器
R1106
麦克风-1
混响器VR
R1107
麦克风-2
混响器VR
(XS)
(MA)
(MB)
(KE)
(KM)

PRINTED WIRING BOARD ASSEMBLIES

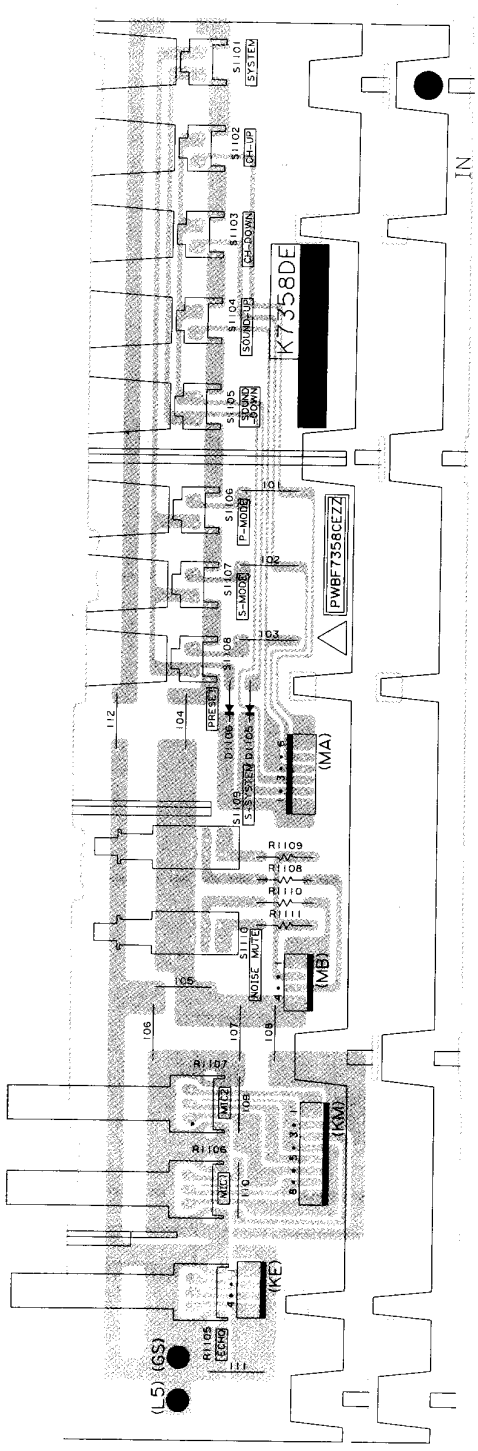
(All the PWBs here are shown as viewed from their wiring sides)

印刷电路板的组装件

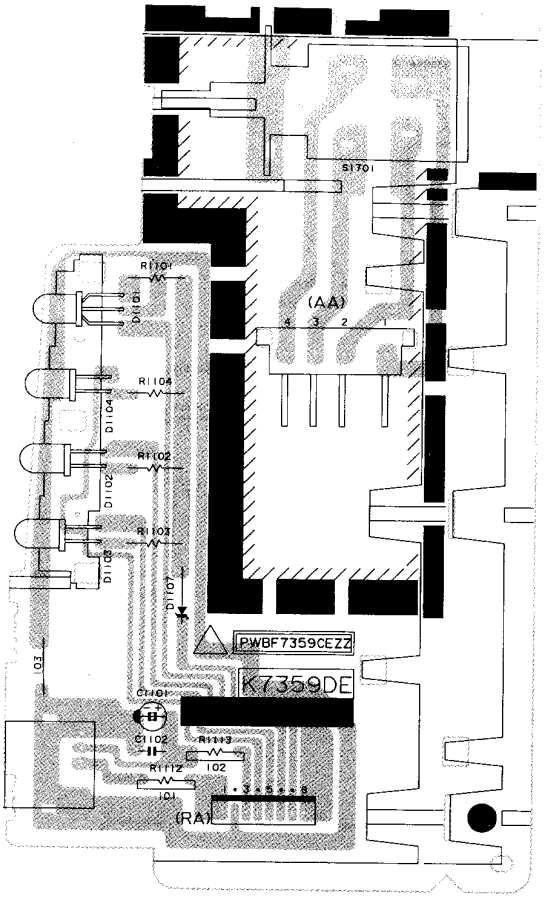
（这里的所有印刷电路都是从导线接头端的角度显示出来。）



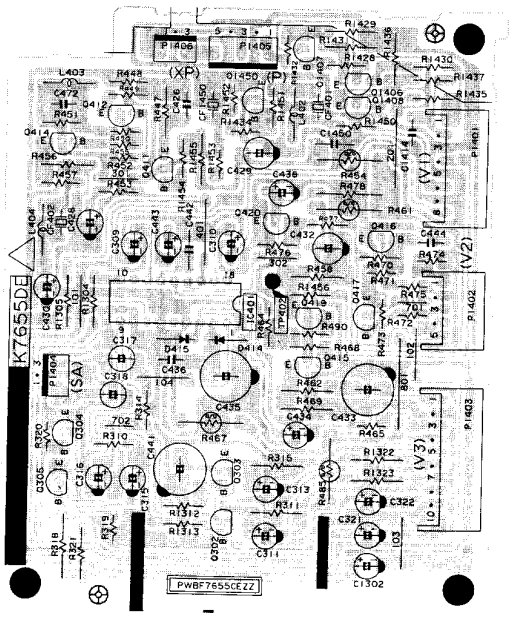
PWB-A



PWB-E



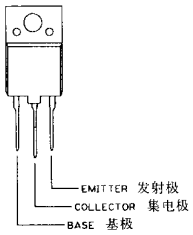
PWB-F



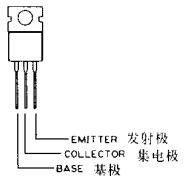
PWM-A

SOLID STATE DEVICE BASE DIAGRAMS
固态部件基座图

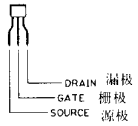
VS2SC3886A/1E



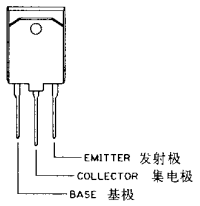
VS2SC2238Y/-1



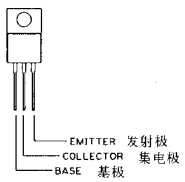
VS2SK304CD/-1



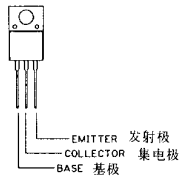
VS2SD1910//2E



VS2SC1827//2E

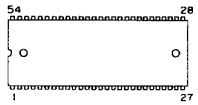


VS2SC4544LB1E



TOP VIEW 上视图

VHITA8690AN-1



VHIMPC1891Y-1

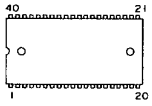
VHITA8184P/-1

VHIM51321P/-1

RH-IX1693CEZZ
VHILM358P//-1

RH-FX0012CEZZ

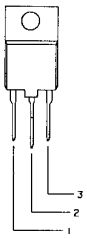
VHIM50197P/-1



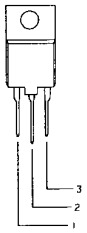
VHILH5048Y/-1

SIDE VIEW 侧视图

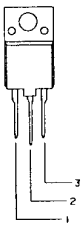
VHISE120N//-1



VHITA7812S/-1



VHIXRA17809



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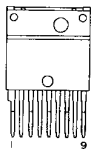
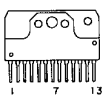
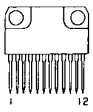


VHILA7838//-1



VHIMC13500T



VHITA8710S/-1

RH-IZ0081CEZZ

VHIXRA15218-1

RH-IX0249CEZZ

DESCRIPTION OF SCHEMATIC DIAGRAM
电路原理图的说明

SERVICE PRECAUTION:

The area enclosed by this line (— - —) is directly connected with AC Mains Voltage.
When servicing the area, connect an isolating transformer between TV receiver and AC line to eliminate hazard of electric shock.

维修注意：

被(— - —)线围起的地方直接和交流电源电压相连接。当对该处进行维修时，为了排除遭受电击的危险性，要在电视接收机和交流电源之间连接隔离变压器。

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠"(▒▒▒) ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

安全使用注意要点：

标有"⚠"(▒▒▒)的部件对于电视机安全的维护有至关重要的意义。为了维护本机的安全和使本机能正常工作，必须使用指定品来更换这些部件。

CAUTION:

This circuit diagram is original one, therefore there may be a slight difference from yours.

注意：

这里的电路原理图均为最初设计原图，与您的机器电器原理图可能有不同之处。

NOTES:

Voltage Measurement Conditions

1. *The voltage without parenthesis represents the value measured with PAL colour signal.*
2. *The voltage in parenthesis represents the value measured with no signal.*
3. *All the voltages were measured by using a high impedance voltmeter.*

Waveform Measurement Conditions

1. *The colour bar signal applied to the TP201 is 2.0V peak-to-peak.*
2. *The tuner AGC voltage is approximately 4V.*
   The diodes, whose parts code is not described, are the 1SS119.
   All resistors are 1/8W, unless otherwise noted.

电压测量条件：

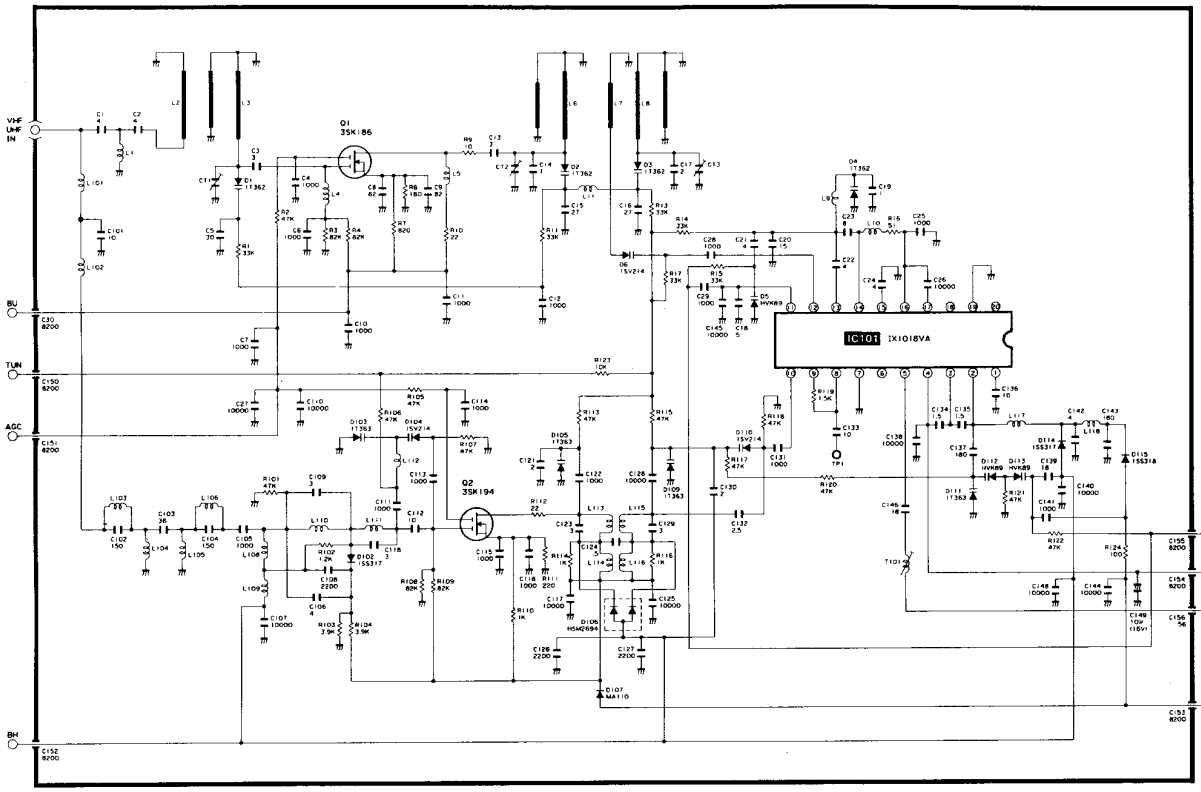
1. 无括弧的电压值是由PAL制式彩色信号测量的。
2. 在括弧内的电压值是由无信号测量的。
3. 所有各点的电压均是用高阻抗电压表来测量的。

波形测量条件：

1. 施加于TP201的色带信号应为2.0V峰间值。
2. 调谐器AGC(自动增益控制)电压约为4V。
   除特别说明者外，所有的二极管均为1SS119，另外，所有的电阻也均为1/8W。

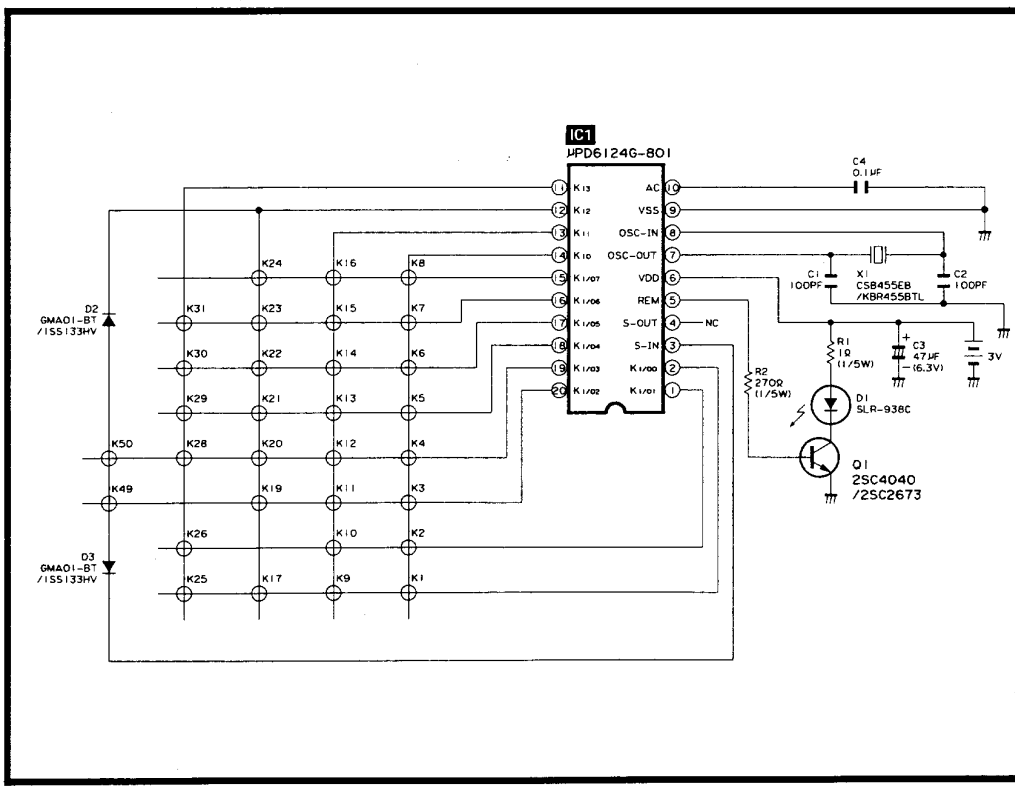
TUNER 调谐器

⚠ VTUVTSS6S1///



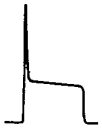
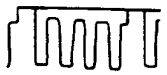
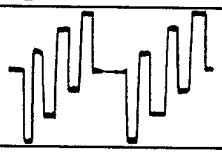
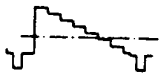
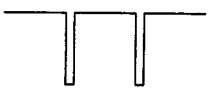
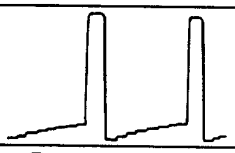
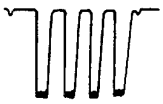
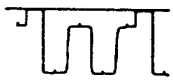
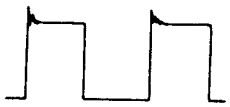
INFRARED REMOTE CONTROLLER 红外线遥控器

RRMCG0840CESA

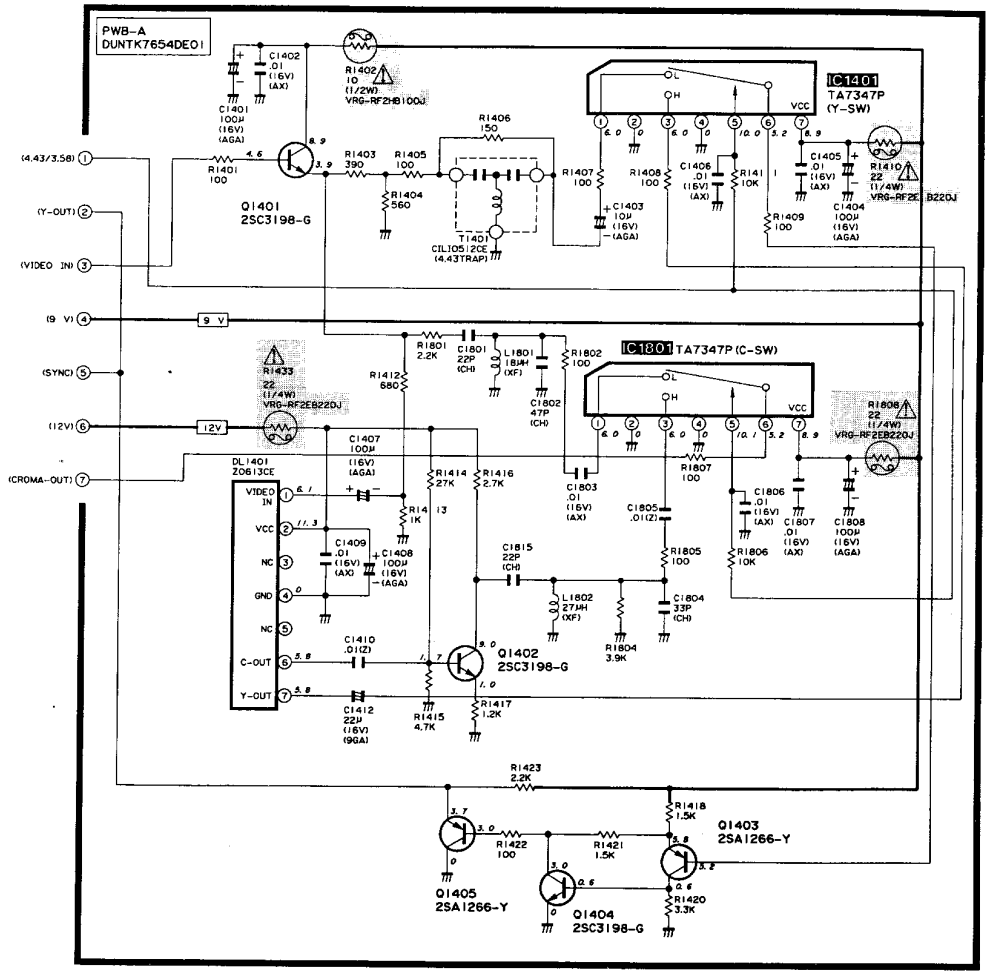


K50	SYSTEM
K49	SURROUND
K31	DAC ▼
K30	DAC ▲
K29	S-MODE
K28	P-MODE
K26	30 +
K25	20 +
K24	10 +
K23	F.B.
K22	S-NORMAL
K21	P-NORMAL
K20	CALL
K19	OFF TIMER
K17	MUTE
K16	POWER
K15	VOL ▼
K14	VOL ▲
K13	TV/VIDEO
K12	CH ▼
K11	CH ▲
K10	0
K9	9
K8	8
K7	7
K6	6
K5	5
K4	4
K3	3
K2	2
K1	1
KEY NO	FUNCTION

WAVE FORMS
波形图

			
① 1.5 Vp-p (H)	⑦ 62 Vp-p (H)	⑬ 0.1 Vp-p (H)	⑲ 7.2 Vp-p (H)
② 1.9 Vp-p (H)	⑧ 1100 Vp-p (H)	⑭ 1.1 Vp-p (H)	⑳ 7.4 Vp-p (H)
			
③ 6.2 Vp-p (H)	⑨ 9.2 Vp-p (H)	⑮ 1.3 Vp-p (H)	㉑ 90 Vp-p (H)
			
④ 5.0 Vp-p (V)	⑩ 0.4 Vp-p (H)	⑯ 0.67 Vp-p (H)	㉒ 90 Vp-p (H)
			
⑤ 4.8 Vp-p (V)	⑪ 0.1 Vp-p (H)	⑰ 6.4 Vp-p (H)	㉓ 90 Vp-p (H)
			
⑥ 54 Vp-p (V)	⑫ 1.1 Vp-p (H)	⑱ 7.4 Vp-p (H)	㉔ 580 Vp-p (AC220V)

SCHEMATIC DIAGRAM: MAIN2 电路原理图：主电路2

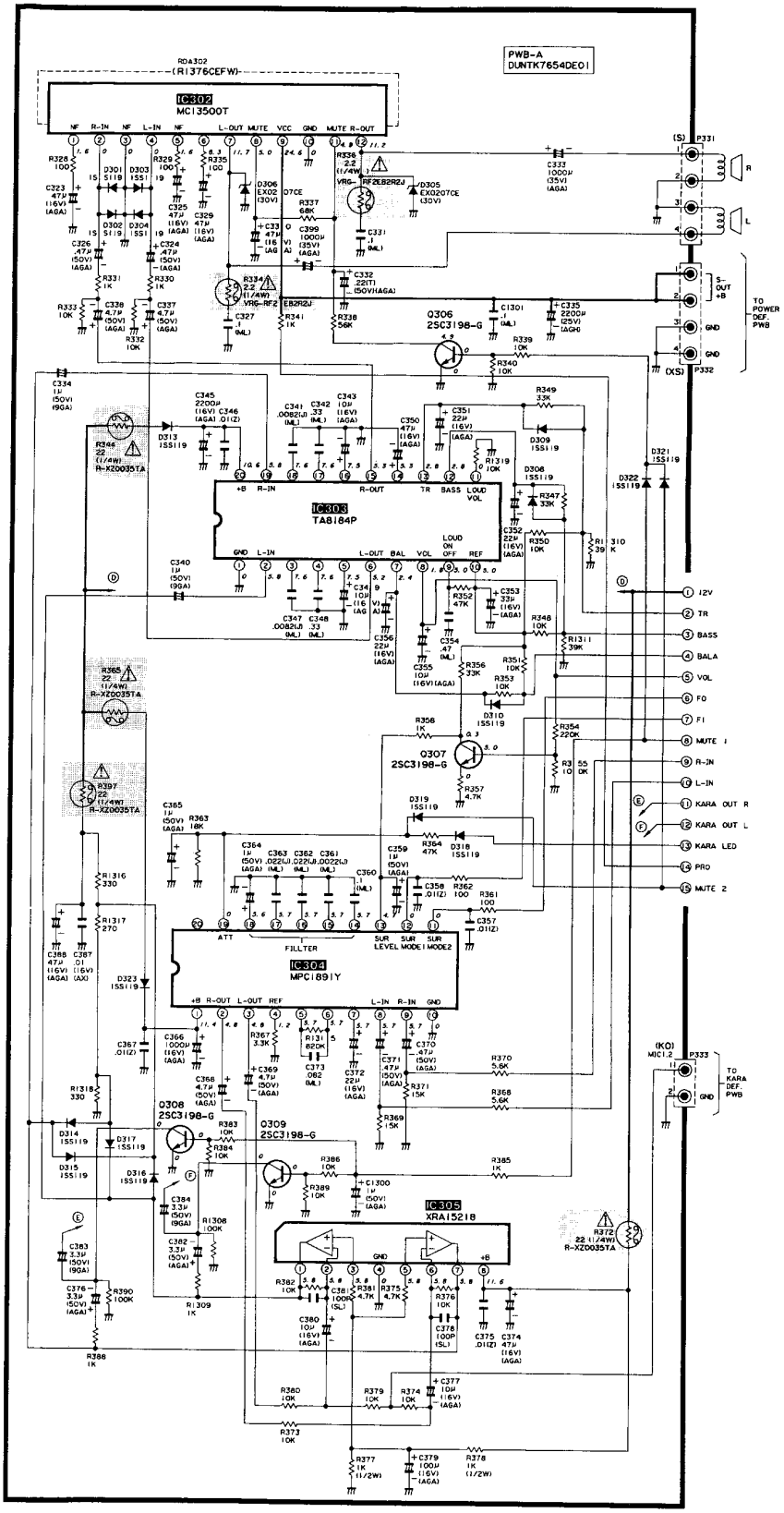


CAUTION: This circuit diagram is original one. Therefore there may be slight differences from yours.

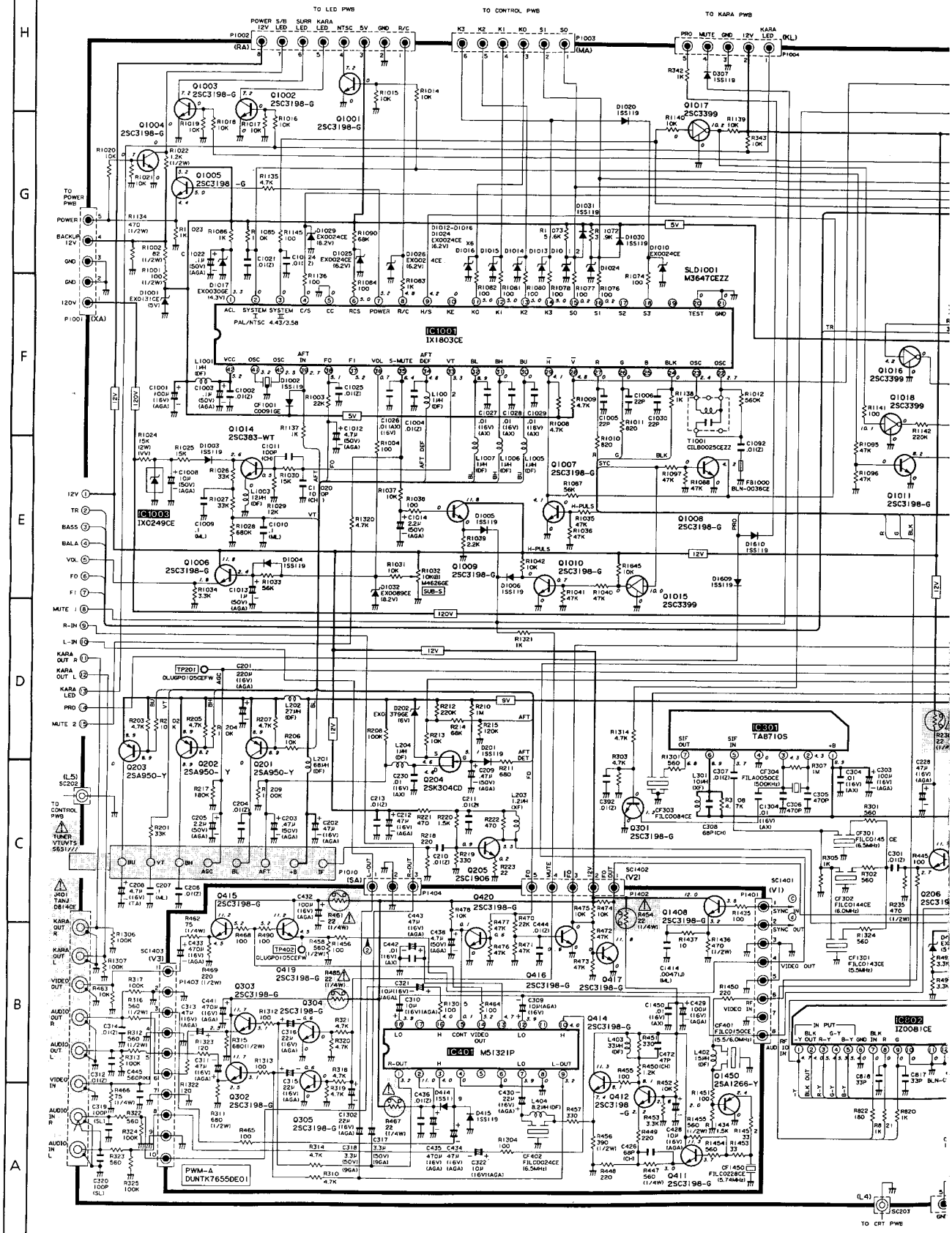
注意：这里的电路原理图均为最初设计原图，与您的机器的电路原理图可能有不同之处。

CAUTION: This circuit diagram is original one. Therefore there may be slight differences from yours.

注意：这里的电路原理图均为最初设计原图，与您的机器的电路原理图可能有不同之处。

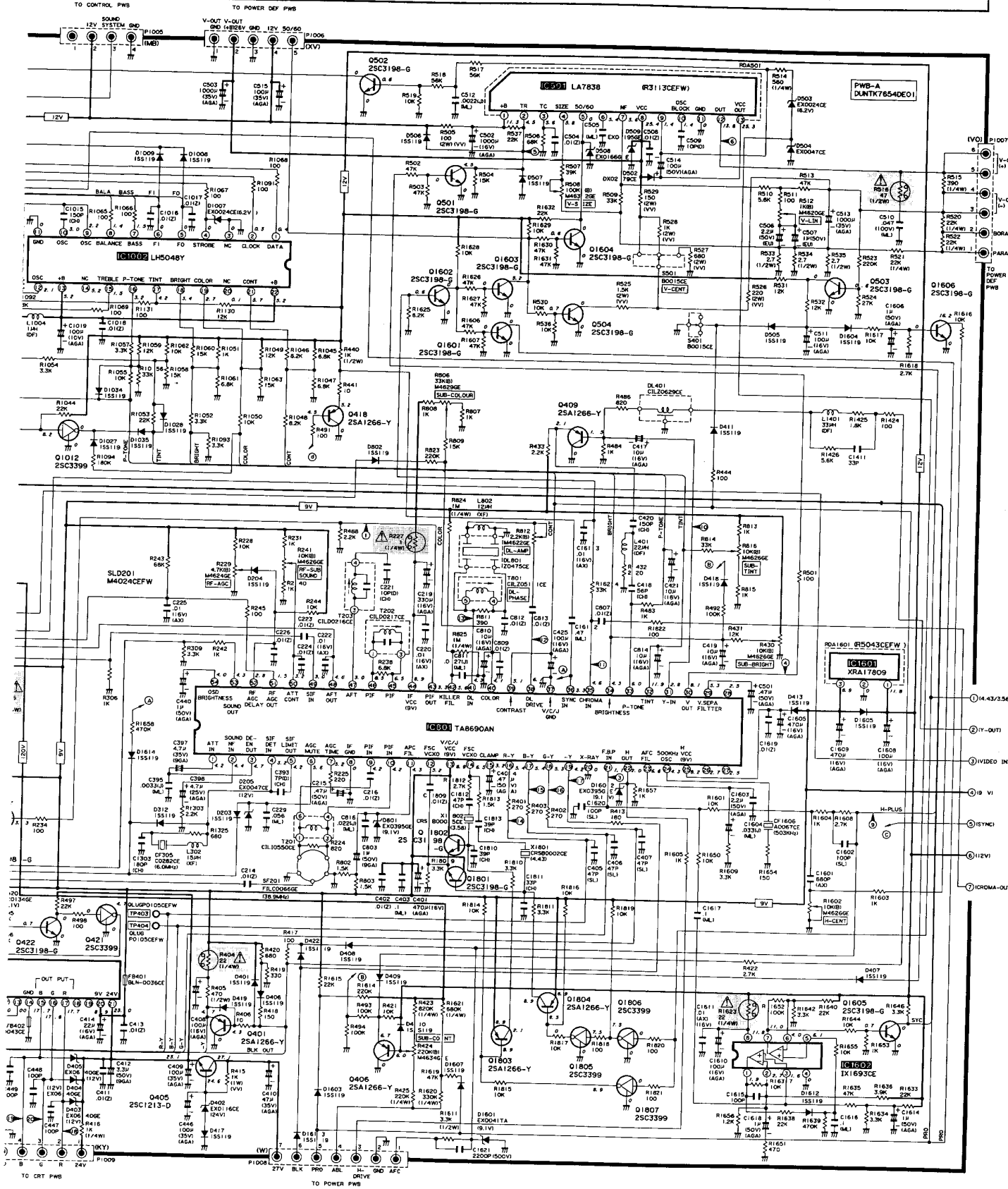


SCHEMATIC DIAGRAM: MAIN1 电路原理图：主电路 1



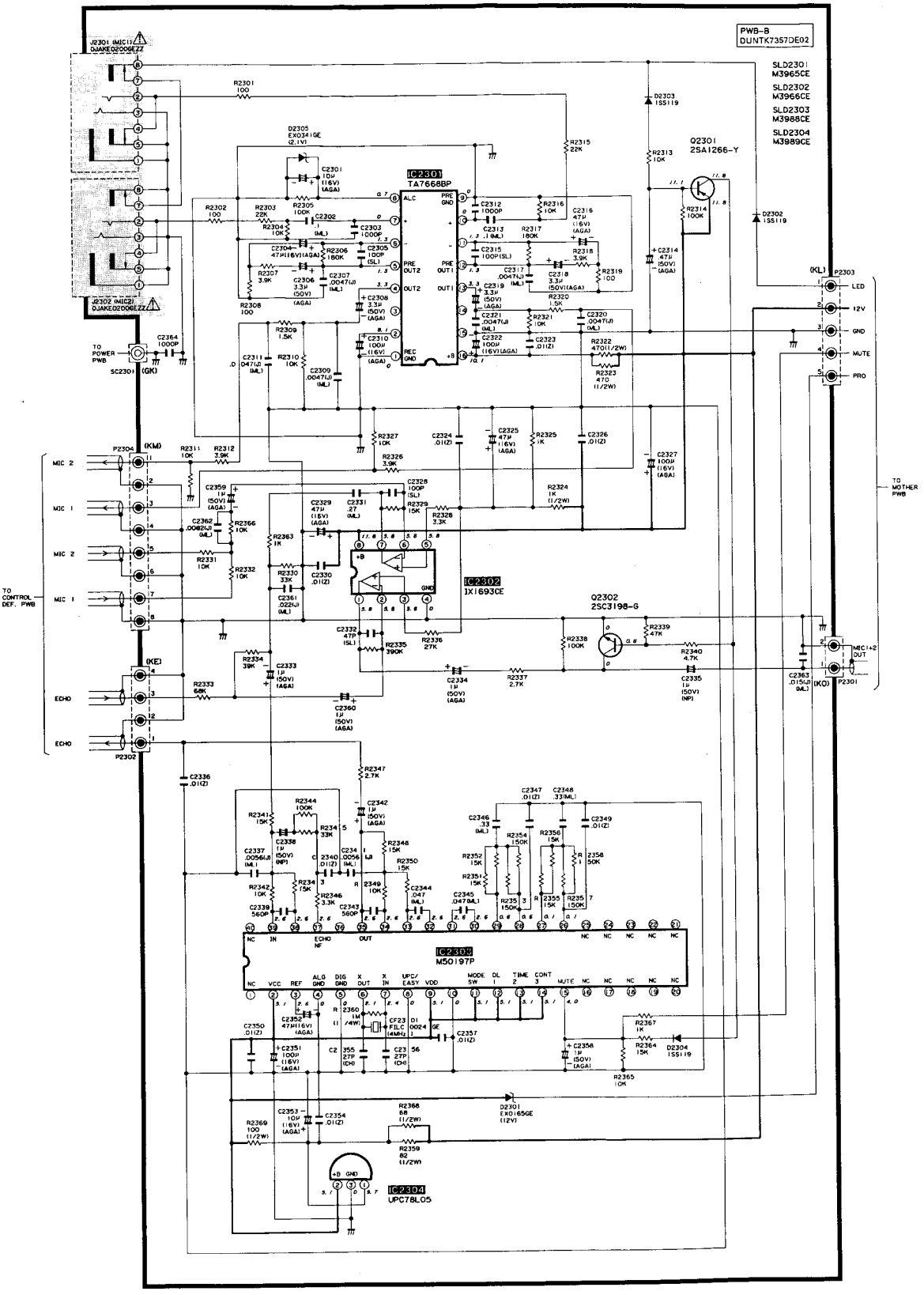
CAUTION: This circuit diagram is original one. Therefore there may be slight differences from yours.

注意：这里的电路原理图均为最初设计原图，与您的机器的电路原理图可能有不同之处。



SCHEMATIC DIAGRAM: MAIN3, KARAOKE

原理图：主电路3，卡拉OK(歌曲伴奏音响)电路



PARTS LIST

PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual: electrical components having such features are identified by "⚠" in the Replacement Parts Lists. The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended replacement parts shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

更换零件表

更换零件

本维修说明书对具有特别安全要求的零件均用标记加以识别：在此更换零件表中，具有特别安全要求的电路元件均用⚠标记以便注意识别。更换零件时，为了用户的安全以及电视机原有的工作性能，务请使用夏普规定零件。否则，可能有导致触电、火灾或其他不测事故发生的可能。

更换零件的订货方法

为了能迅速而确实地接受订货、以及正确无误地按时交货，在订货时请将下列各项明确告知。

1. 型号
2. 参考编号
3. 零件编号
4. 零件名称

MARK ★ : SPARE PARTS-DELIVERY SECTION 附★记号为备用部件的交货部门。

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PICTURE TUBE 显象管

⚠	VB59KFS61X/*S	J	CRT	阴极射线管	CS
⚠ DY	RCiLH1728CEZZ	J	Deflection Yoke	偏转线圈	BG
⚠	RCiLG0337CEZZ	J	Degaussing Coil	消磁线圈	AX
	PMAGF3003CEZZ	J	Magnet Ass'y, Purity and Static Convergence	色彩纯度调节磁铁和静态会聚	AK
	PSPAG0214CEZZ	J	Wedge (Rubber), Yoke Positioning (3 pcs used)	楔块(橡胶), 偏转线圈位置(3pcs堪用)	AB

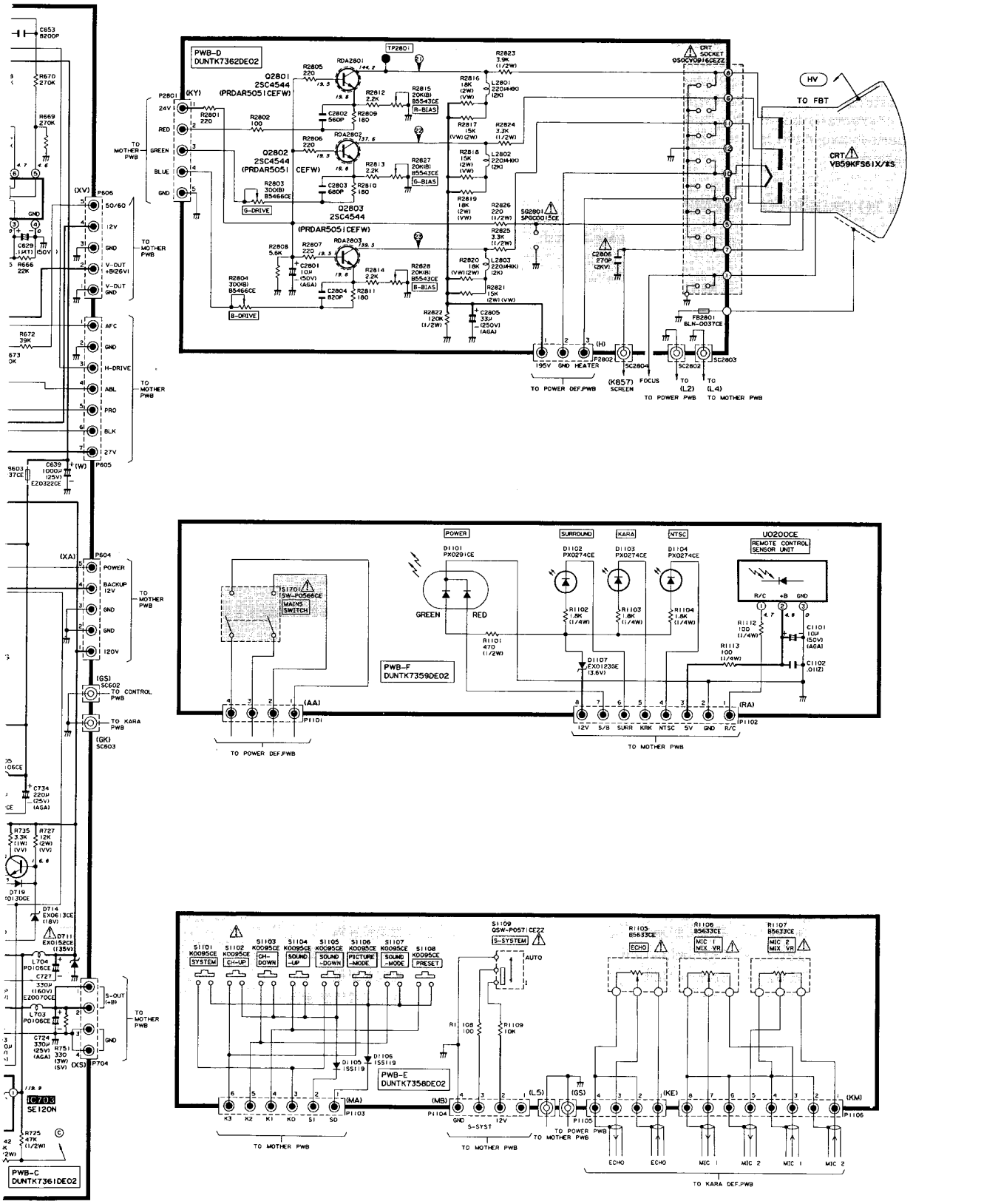
PRINTED WIRING BOARD ASSEMBLIES 印刷电路板组装件

(NOT REPLACEMENT ITEM) （非更换项目）

PWB-A	DUNTK7654DE01	–	Main Unit	主装置板	—
PWB-B	DUNTK7357DE02	–	KARAOKE Unit	卡拉ＯＫ装置板	—
PWB-C	DUNTK7361DE02	–	POWER Unit	电源装置板	—
PWB-D	DUNTK7362DE02	–	CRT Socket Unit	阴极射线管装置板	—
PWB-E	DUNTK7358DE02	–	Control Unit	控制装置板	—
PWB-F	DUNTK7359DE02	–	LED Unit	发光二极管装置板	—
PWM-A	DUNTK7655DE01	–	A/V Unit	音频/视频装置板	—

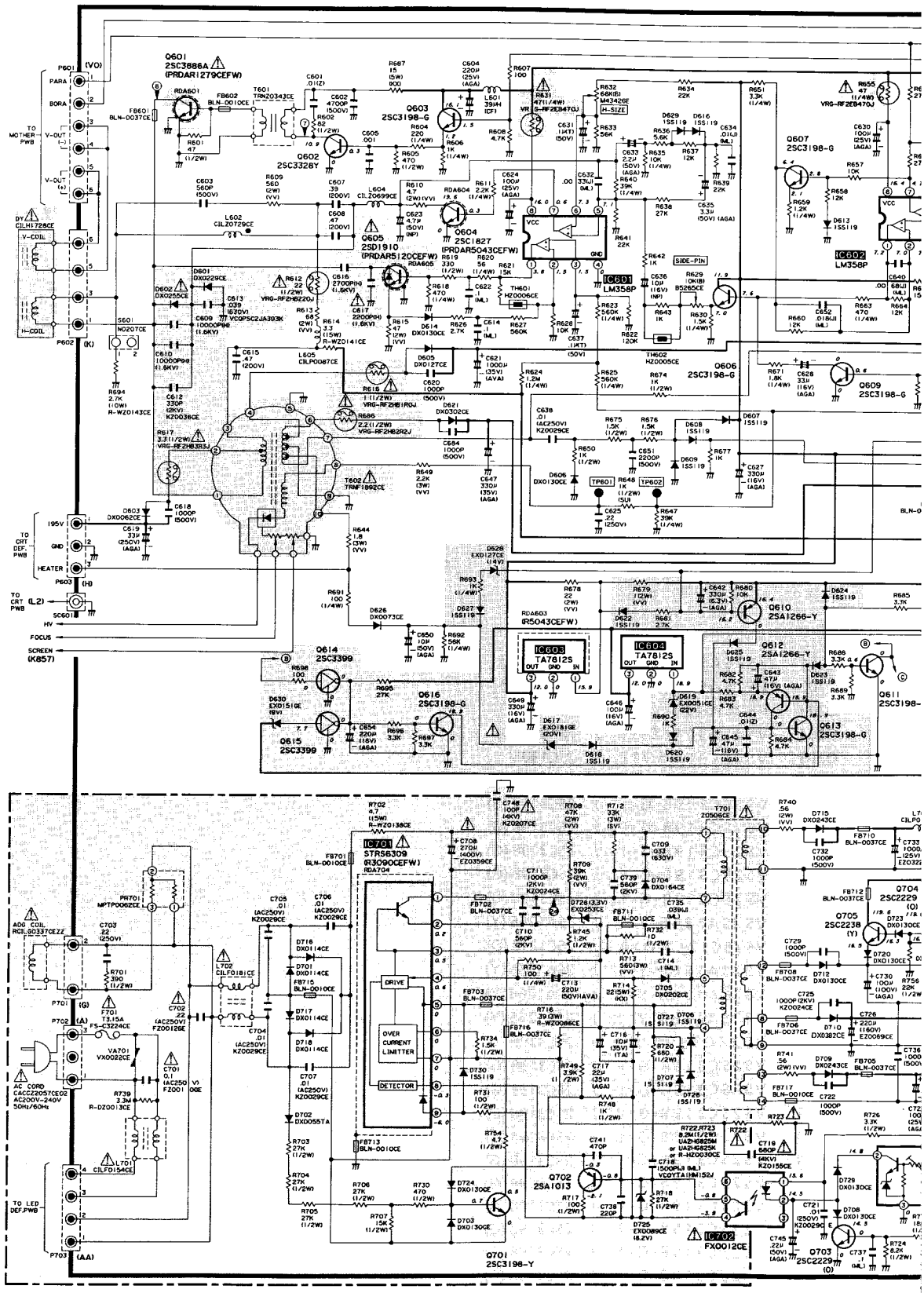
CAUTION: This circuit diagram is original one. Therefore there may be slight differences from yours.

注意：这里的电路原理图均为最初设计原图，与您的机器的电路原理图可能有不同之处。



SCHEMATIC DIAGRAM: POWER, CRT, LED, CONTROL

原理图：电源、阴极射线管、发光二极管和控制电路



REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PWB-A DUNTK7654DE01
MAIN UNIT

PWB-A DUNTK7654DE01
主装置板

TUNER
NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.

调谐器
注意：此处列出的零件为组合件，但并非附属。

⚠	VTUVTSS6S1///	J	Tuner, UHF/VHF	调谐器, UHF/VHF	BL

INTEGRATED CIRCUITS / 集成电路

IC301	VHiTA8710S/-1	J	TA8710S	AL
IC302	VHiMC13500T2E	J	MC13500T	AP
IC303	VHiTA8184P/-1	J	TA8184P	AM
IC304	VHiMPC1891Y-1	J	UPC1891ACY	AP
IC305	VHiXRA15218-1	J	XRA15218N	AC
IC501	VHiLA7838//-1	J	LA7838	AK
IC801	VHiTA8690AN-1	J	TA8690AN	AU
IC802	RH-iZ0081CEZZ	J	RH-iZ0081CE	AS
IC1001	RH-iX1803CEZZ	J	I.C.	AW
IC1002	VHiLH5048Y/-1	J	I.C.	AK
IC1003	RH-iX0249CEZZ	J	HZT33-02T	AE
IC1401	VHiTA7347P/-1		TA7347P	AG
IC1601	VHiXRA17809-1	J	XRA17809	AE
IC1602	RH-iX1693CEZZ	J	XRA15218	AC
IC1801	VHiTA7347P/-1		TA7347P	AG

TRANSISTORS / 晶体管

Q201	VS2SA950-Y/1E	J	2SA950(Y)	AD
Q202	VS2SA950-Y/1E	J	2SA950(Y)	AD
Q203	VS2SA950-Y/1E	J	2SA950(Y)	AD
Q204	VS2SK304CD/-1	J	2SK304 (D)	AC
Q205	VS2SC1906//1E	J	2SC1906	AC
Q206	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q301	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q306	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q307	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q308	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q309	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q401	VS2SA1266-Y-1	J	2SA1266 (Y)	AA
Q405	VS2SC1213-D1A	J	2SC1213 (D)	AC
Q406	VS2SA1266-Y-1	J	2SA1266 (Y)	AA
Q409	VS2SA1266-Y-1	J	2SA1266 (Y)	AA
Q418	VS2SA1266-Y-1	J	2SA1266 (Y)	AA
Q421	VS2SC3399//-1	J	2SC3399	AB
Q422	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q501	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q502	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q503	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q504	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q1001	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q1002	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q1003	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q1004	VS2SC3198-G-1	J	2SC3198 (G)	AA
Q1005	VS2SC3198-G-1	J	2SC3198 (G)	AA

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PWB-A DUNTK7654DE01
MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

TRANSISTORS (Continued)

晶体管(接上页)

Q1006	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1007	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1008	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1009	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1010	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1011	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1012	VS2SC3399//-1	J	2SC3399		AB
Q1014	VS2SC383-WT-1	J	2SC383 (W)		AE
Q1015	VS2SC3399//-1	J	2SC3399		AB
Q1016	VS2SC3399//-1	J	2SC3399		AB
Q1017	VS2SC3399//-1	J	2SC3399		AB
Q1018	VS2SC3399//-1	J	2SC3399		AB
Q1401	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1402	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1403	VS2SA1266-Y-1	J	2SA1266 (Y)		AA
Q1404	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1405	VS2SA1266-Y-1	J	2SA1266 (Y)		AA
Q1601	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1602	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1603	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1604	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1605	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1606	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1801	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1802	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1803	VS2SA1266-Y-1	J	2SA1266 (Y)		AA
Q1804	VS2SA1266-Y-1	J	2SA1266 (Y)		AA
Q1805	VS2SC3399//-1	J	2SC3399		AB
Q1806	VS2SC3399//-1	J	2SC3399		AB
Q1807	VS2SC3399//-1	J	2SC3399		AB

DIODES

二极管

D201	VHD1SS119//1E	J	1SS119		AA
D202	RH-EX0379GEZZ	J	Zener Diode, 6V	齐纳二极管	AA
D203	VHD1SS119//1E	J	1SS119		AA
D204	VHD1SS119//1E	J	1SS119		AA
D205	RH-EX0047CEZZ	J	Zener Diode, 12V	齐纳二极管	AB
D301	VHD1SS119//1E	J	1SS119		AA
D302	VHD1SS119//1E	J	1SS119		AA
D303	VHD1SS119//1E	J	1SS119		AA
D304	VHD1SS119//1E	J	1SS119		AA
D305	RH-EX0207CEZZ	J	Zener Diode, 30V	齐纳二极管	AA
D306	RH-EX0207CEZZ	J	Zener Diode, 30V	齐纳二极管	AA
D307	VHD1SS119//1E	J	1SS119		AA
D308	VHD1SS119//1E	J	1SS119		AA
D309	VHD1SS119//1E	J	1SS119		AA
D310	VHD1SS119//1E	J	1SS119		AA
D310	VHD1SS119//1E	J	1SS119		AA
D312	VHD1SS119//1E	J	1SS119		AA
D313	VHD1SS119//1E	J	1SS119		AA

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PWB-A DUNTK7654DE01
MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

DIODES (Continued) 二极管(接上页)

D314	VHD1SS119//1E	J	1SS119		AA
D315	VHD1SS119//1E	J	1SS119		AA
D316	VHD1SS119//1E	J	1SS119		AA
D317	VHD1SS119//1E	J	1SS119		AA
D318	VHD1SS119//1E	J	1SS119		AA
D319	VHD1SS119//1E	J	1SS119		AA
D321	VHD1SS119//1E	J	1SS119		AA
D322	VHD1SS119//1E	J	1SS119		AA
D323	VHD1SS119//1E	J	1SS119		AA
D401	VHD1SS119//1E	J	1SS119		AA
D402	RH-EX0116CEZZ	J	Zener Diode, 24V	齐纳二极管	AB
D403	RH-EX0640GEZZ	J	Zener Diode, 12V	齐纳二极管	AA
D404	RH-EX0640GEZZ	J	Zener Diode, 12V	齐纳二极管	AA
D405	RH-EX0640GEZZ	J	Zener Diode, 12V	齐纳二极管	AA
D406	VHD1SS119//1E	J	1SS119		AA
D407	VHD1SS119//1E	J	1SS119		AA
D408	VHD1SS119//1E	J	1SS119		AA
D409	VHD1SS119//1E	J	1SS119		AA
D410	VHD1SS119//1E	J	1SS119		AA
D411	VHD1SS119//1E	J	1SS119		AA
D413	VHD1SS119//1E	J	1SS119		AA
D417	VHD1SS119//1E	J	1SS119		AA
D418	VHD1SS119//1E	J	1SS119		AA
D419	VHD1SS119//1E	J	1SS119		AA
D420	RH-EX0134GEZZ	J	Zener Diode, 5.1V	齐纳二极管	AC
D422	VHD1SS119//1E	J	1SS119		AA
D502	RH-DX0279CEZZ	J	1N4005		AB
D503	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D504	RH-EX0047CEZZ	J	Zener Diode, 12V	齐纳二极管	AB
D505	VHD1SS119//1E	J	1SS119		AA
D506	VHD1SS119//1E	J	1SS119		AA
D507	VHD1SS119//1E	J	1SS119		AA
D508	RH-EX0166GEZZ	J	Zener Diode, 13V	齐纳二极管	AA
D509	RH-EX0195GEZZ	J	Zener Diode, 30V	齐纳二极管	AA
D801	RH-EX0395GEZZ	J	Zener Diode, 9.1V	齐纳二极管	AA
D802	VHD1SS119//1E	J	1SS119		AA
D1001	RH-EX0131CEZZ	J	Zener Diode, 5V	齐纳二极管	AB
D1002	VHD1SS119//1E	J	1SS119		AA
D1003	VHD1SS119//1E	J	1SS119		AA
D1004	VHD1SS119//1E	J	1SS119		AA
D1005	VHD1SS119//1E	J	1SS119		AA
D1006	VHD1SS119//1E	J	1SS119		AA
D1007	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D1008	VHD1SS119//1E	J	1SS119		AA
D1009	VHD1SS119//1E	J	1SS119		AA
D1010	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D1012	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D1013	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D1014	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D1015	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D1016	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB

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PWB-A DUNTK7654DE01
MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

DIODES (Continued)

二极管(接上页)

D1017	RH-EX0030GEZZ	J	Zener Diode, 4.3V	齐纳二极管	AB
D1020	VHD1SS119//1E	J	1SS119		AA
D1024	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D1025	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D1026	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D1027	VHD1SS119//1E	J	1SS119		AA
D1028	VHD1SS119//1E	J	1SS119		AA
D1029	RH-EX0024CEZZ	J	Zener Diode, 6.2V	齐纳二极管	AB
D1030	VHD1SS119//1E	J	1SS119		AA
D1031	VHD1SS119//1E	J	1SS119		AA
D1032	RH-EX0089CEZZ	J	Zener Diode, 8.2V	齐纳二极管	AB
D1034	VHD1SS119//1E	J	1SS119		AA
D1035	VHD1SS119//1E	J	1SS119		AA
D1601	RH-EX0041TAZZ	J	Zener Diode, 9.1V	齐纳二极管	AC
D1602	RH-EX0395GEZZ	J	Zener Diode, 9.1V	齐纳二极管	AA
D1603	VHD1SS119//1E	J	1SS119		AA
D1604	VHD1SS119//1E	J	1SS119		AA
D1605	VHD1SS119//1E	J	1SS119		AA
D1607	VHD1SS119//1E	J	1SS119		AA
D1609	VHD1SS119//1E	J	1SS119		AA
D1610	VHD1SS119//1E	J	1SS119		AA
D1612	VHD1SS119//1E	J	1SS119		AA
D1613	VHD1SS119//1E	J	1SS119		AA
D1614	VHD1SS119//1E	J	1SS119		AA

PACKAGED CIRCUITS

封装电路

X1801	RCRSB0002CEZZ	J	Crystal, 4.43MHz	晶体, 4.43MHz	AM
X1802	RCRSB0005CEZZ	J	Crystal, 3.58MHz	晶体, 3.58MHz	AN

COILS

线圈

L201	VP-DF680K0000	J	68μH	AB
L202	VP-DF270K0000	J	27μH	AB
L203	VP-XF1R2K0000	J	1.2μH	AB
L204	VP-DF1R0K0000	J	1μH	AB
L301	VP-XF100K0000	J	10μH	AB
L302	VP-DF150K0000	J	15μH	AB
L401	VP-OF220K0000	J	22μH	AC
L802	VP-XF120K0000	J	12μH	AB
L1001	VP-DF1R0K0000	J	1μH	AB
L1002	VP-DF1R0K0000	J	1μH	AB
L1003	VP-DF120K0000	J	12μH	AB
L1004	VP-DF1R0K0000	J	1μH	AB
L1005	VP-DF1R0K0000	J	1μH	AB
L1006	VP-DF1R0K0000	J	1μH	AB
L1007	VP-DF1R0K0000	J	1μH	AB
L1401	VP-DF330K0000	J	33μH	AB
L1801	VP-XF180K0000	J	18μH	AB
L1802	VP-DF270K0000	J	27μH	AB

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PWB-A DUNTK7654DE01
MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

CERAMIC FILTERS — 陶瓷滤波器

CF301	RFiLC0145CEZZ	J	6.5MHz			AE
CF302	RFiLC0144CEZZ	J	6MHz			AD
CF303	RFiLC0084CEZZ	J	6MHz			AF
CF304	RFiLA0050CEZZ	J	500kHz			AC
CF305	RFiLC0282CEZZ	J	6MHz			AD
CF1001	RFiLC0091GEZZ	J	4MHz			AD
CF1301	RFiLC0143CEZZ	J	5.5MHz			AD
CF1606	RFiLA0067CEZZ	J	503kHz			AD
SF201	RFiLC0066GEZZ	J	38.9MHz	Surface Accoustic Wave Filter	表面声波滤波器	AK

DELAY LINES — 延迟线

DL401	RCiLZ0629CEZZ	J	Delay Line, Y	延迟线，亮度	AG
DL801	RCiLZ0475CEZZ	J	Delay Line, Chroma	延迟线，色度	AP
DL1401	RCiLZ0613CEZZ	J	NTSC Comb Filter	NTSC 梳形滤波器	AT

TRANSFORMERS — 变压器

T201	RCiLi0550CEZZ	J	IF Coil	中频线圈	AD
T202	RCiLD0217CEZZ	J	P-Det. Coil	视频检波器线圈	AD
T203	RCiLD0216CEZZ	J	AFT Coil	AFT线圈	AD
T801	RCiLZ0511CEZZ	J	Matching Coil	匹配线圈	AD
T1001	RCiLB0025CEZZ	J	OSD Oscillator	OSD振荡器	AD
T1401	RCiLi0512CEZZ	J	4.43MHz Trap	陷波器	AE

CONTROLS — 控制器

R229	RVR-M4624GEZZ	J	4.7k(B)	RF-AGC	射频自动增益控制	AB
R241	RVR-M4626GEZZ	J	10k(B)	RF-Sub Sound	射频副音响	AB
R424	RVR-M4634GEZZ	J	220k(B)	Sub-Contrast	副对比度	AB
R430	RVR-M4626GEZZ	J	10k(B)	Sub-Brightness	副亮度	AB
R508	RVR-M4632GEZZ	J	100k(B)	Vertical Size	垂直尺寸	AB
R512	RVR-M4620GEZZ	J	1k(B)	Vertical Lin.	垂直线条	AB
R806	RVR-M4629GEZZ	J	33k(B)	Sub-Colour	副彩色	AB
R812	RVR-M4622GEZZ	J	2.2k(B)	DL-Amp.	延迟放大器	AB
R816	RVR-M4626GEZZ	J	10k(B)	Sub-Tint	副色调	AB
R1032	RVR-M4626GEZZ	J	10k(B)	Sub-Sound	副音响	AB
R1602	RVR-M4626GEZZ	J	10k(B)	Horiz. Center	垂直中心	AB

CAPACITORS — 电容器

C201	VCEAGA1CW227M	J	220	16V	Electrolytic	电解电容器	AC
C202	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C203	VCEAGA1HW474M	J	0.47	50V	Electrolytic	电解电容器	AA
C204	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C205	VCEAGA1HW225M	J	2.2	50V	Electrolytic	电解电容器	AB
C206	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C207	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C208	VCSATA1CE475K	J	4.7	16V	Tantalum	钽电容器	AC
C209	VCEAGA1HW474M	J	0.47	50V	Electrolytic	电解电容器	AA
C210	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C211	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

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MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

CAPACITORS (Continued)
电容器(接上页)

C212	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C213	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C214	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C215	VCEAGA1HW474M	J	0.47	50V	Electrolytic	电解电容器	AA
C216	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C219	VCEAGA1CW337M	J	330	16V	Electrolytic	电解电容器	AC
C220	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C221	VCCCPA1HH100D	J	10	50V	Ceramic	陶瓷电容器	AA
C222	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C223	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C224	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C225	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C226	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C228	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C229	VCFYHA1HA563J	J	0.056	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C230	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C301	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C303	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C304	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C305	VCKYPA1HB471K	J	470p	50V	Ceramic	陶瓷电容器	AA
C306	VCKYPA1HB471K	J	470p	50V	Ceramic	陶瓷电容器	AA
C307	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C308	VCCCPA1HH680J	J	68p	50V	Ceramic	陶瓷电容器	AA
C312	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C314	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C319	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C320	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C323	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C324	VCEAGA1HW474M	J	0.47	50V	Electrolytic	电解电容器	AA
C325	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C326	VCEAGA1HW474M	J	0.47	50V	Electrolytic	电解电容器	AA
C327	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C329	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C330	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C331	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C332	VCEAGA1HW224J	J	0.22	50V	Electrolytic	电解电容器	AB
C333	VCEAGA1VW108M	J	1000	35V	Electrolytic	电解电容器	AD
C334	VCE9GA1HW105M	J	1	50V	Electrolytic (N.P)	电解电容器(无极性)	AB
C335	VCEAGH1EW228M	J	2200	25V	Electrolytic	电解电容器	AE
C337	VCEAGA1HW475M	J	4.7	50V	Electrolytic	电解电容器	AB
C338	VCEAGA1HW475M	J	4.7	50V	Electrolytic	电解电容器	AB
C340	VCE9GA1HW105M	J	1	50V	Electrolytic (N.P)	电解电容器(无极性)	AB
C341	VCQYTA1HM822J	J	8200p	50V	Mylar	聚酯树脂电容器	AA
C342	VCFYHA1HA334J	J	0.33	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AC
C343	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C345	VCEAGA1CW228M	J	2200	16V	Electrolytic	电解电容器	AE
C346	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C347	VCQYTA1HM822J	J	8200p	50V	Mylar	聚酯树脂电容器	AA
C348	VCFYHA1HA334J	J	0.33	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AC
C349	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C350	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB

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PWB-A DUNTK7654DE01
MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

CAPACITORS (Continued) 电容器(接上页)

C351	VCEAGA1CW226M	J	22	16V	Electrolytic	电解电容器	AB
C352	VCEAGA1CW226M	J	22	16V	Electrolytic	电解电容器	AB
C353	VCEAGA1CW336M	J	33	16V	Electrolytic	电解电容器	AB
C354	VCFYHA1HA474J	J	0.47	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AD
C355	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C356	VCEAGA1CW226M	J	22	16V	Electrolytic	电解电容器	AB
C357	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C358	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C359	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AB
C360	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C361	VCQYTA1HM222J	J	2200p	50V	Mylar	聚酯树脂电容器	AA
C362	VCQYTA1HM223J	J	0.022	50V	Mylar	聚酯树脂电容器	AA
C363	VCQYTA1HM223J	J	0.022	50V	Mylar	聚酯树脂电容器	AA
C364	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AB
C365	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AB
C366	VCEAGA1CW108M	J	1000	16V	Electrolytic	电解电容器	AD
C357	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C368	VCEAGA1HW475M	J	4.7	50V	Electrolytic	电解电容器	AB
C369	VCEAGA1HW475M	J	4.7	50V	Electrolytic	电解电容器	AB
C370	VCEAGA1HW474M	J	0.47	50V	Electrolytic	电解电容器	AA
C371	VCEAGA1HW474M	J	0.47	50V	Electrolytic	电解电容器	AA
C372	VCEAGA1CW226M	J	22	16V	Electrolytic	电解电容器	AB
C373	VCFYHA1HA823J	J	0.082	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C374	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C375	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C376	VCEAGA1HW335M	J	3.3	50V	Electrolytic	电解电容器	AB
C377	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C378	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C379	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C380	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AB
C381	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C382	VCEAGA1HW335M	J	3.3	50V	Electrolytic	电解电容器	AB
C383	VCE9GA1HW335M	J	3.3	50V	Electrolytic (N.P)	电解电容器(无极性)	AB
C384	VCE9GA1HW335M	J	3.3	50V	Electrolytic (N.P)	电解电容器(无极性)	AB
C387	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C388	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C392	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C393	VCCCPA1HH7R0D	J	7p	50V	Ceramic	陶瓷电容器	AA
C395	VCQYTA1HM332J	J	3300p	50V	Mylar	聚酯树脂电容器	AA
C397	VCE9GA1VW475M	J	4.7	35V	Electrolytic (N.P)	电解电容器(无极性)	AB
C398	VCEAGA1EW475M	J	4.7	25V	Electrolytic	电解电容器	AC
C399	VCEAGA1VW108M	J	1000	35V	Electrolytic	电解电容器	AD
C401	VCEAGA1CW477M	J	470	16V	Electrolytic	电解电容器	AC
C402	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C403	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C404	VCEAGA1HW474M	J	0.47	50V	Electrolytic	电解电容器	AA
C405	VCCSPA1HL470J	J	47p	50V	Ceramic	陶瓷电容器	AA
C406	VCCSPA1HL470J	J	47p	50V	Ceramic	陶瓷电容器	AA
C407	VCCSPA1HL470J	J	47p	50V	Ceramic	陶瓷电容器	AA
C408	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C409	VCEAGA1VW107M	J	100	35V	Electrolytic	电解电容器	AC

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CAPACITORS (Continued) / **电容器(接上页)**

C410	VCEAGA1VW476M	J	47	35V	Electrolytic	电解电容器	AB
C411	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C412	VCE9GA1HW335M	J	3.3	50V	Electrolytic (N.P)	电解电容器(无极性)	AB
C413	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C414	VCEAGA1CW226M	J	22	16V	Electrolytic	电解电容器	AB
C417	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C418	VCCCPA1HH560J	J	56p	50V	Ceramic	陶瓷电容器	AA
C419	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C420	VCCPA1HH151J	J	150p	50V	Ceramic	陶瓷电容器	AA
C421	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C425	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C440	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AC
C445	VCKYPA1HB561K	J	560p	50V	Ceramic	陶瓷电容器	AA
C446	VCEAGA1VW107M	J	100	35V	Electrolytic	电解电容器	AC
C447	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C448	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C449	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C501	VCEAGA1HW474M	J	0.47	50V	Electrolytic	电解电容器	AA
C502	VCEAGA1CW108M	J	1000	16V	Electrolytic	电解电容器	AD
C503	VCEAGA1VW108M	J	1000	35V	Electrolytic	电解电容器	AD
C504	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C505	VCFYHA1HA105J	J	1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AE
C506	VCEACA1HC225M	J	2.2	50V	Electrolytic	电解电容器	AC
C507	VCEACA1HC105M	J	1	50V	Electrolytic	电解电容器	AC
C508	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C509	VCCSPA1HL100D	J	10	50V	Ceramic	陶瓷电容器	AA
C510	VCQYSG2AA473K	J	0.047	100V	Mylar	聚酯树脂电容器	AC
C511	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C512	VCQYTA1HM222J	J	2200p	50V	Mylar	聚酯树脂电容器	AA
C513	VCEAGA1VW108M	J	1000	35V	Electrolytic	电解电容器	AD
C514	VCEAGA1HW107M	J	100	50V	Electrolytic	电解电容器	AC
C515	VCEAGA1VW107M	J	100	35V	Electrolytic	电解电容器	AC
C803	VCE9GA1HW105M	J	1	50V	Electrolytic (N.P)	电解电容器(无极性)	AB
C807	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C809	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C810	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C811	VCQYTA1HM273J	J	0.027	50V	Mylar	聚酯树脂电容器	AB
C812	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C813	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C814	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C816	VCQYTA1HM223J	J	0.022	50V	Mylar	聚酯树脂电容器	AA
C817	VCCSPA1HL330J	J	33p	50V	Ceramic	陶瓷电容器	AA
C818	VCCSPA1HL330J	J	33p	50V	Ceramic	陶瓷电容器	AA
C1001	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C1002	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C1003	VCEAGA1HW104M	J	0.1	50V	Electrolytic	电解电容器	AA
C1004	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C1005	VCCSPA1HL220J	J	22p	50V	Ceramic	陶瓷电容器	AA
C1006	VCCSPA1HL220J	J	22p	50V	Ceramic	陶瓷电容器	AA
C1008	VCEAGA1HW106M	J	10	50V	Electrolytic	电解电容器	AA
C1009	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB

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CAPACITORS (Continued) 电容器(接上页)

C1010	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C1011	VCCCPA1HH101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C1012	VCEAGA1HW475M	J	4.7	50V	Electrolytic	电解电容器	AB
C1013	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AB
C1014	VCEAGA1HW225M	J	2.2	50V	Electrolytic	电解电容器	AB
C1015	VCCCPA1HH151J	J	150p	50V	Ceramic	陶瓷电容器	AA
C1016	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C1017	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C1018	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C1019	VCEAGA1AW107M	J	100	10V	Electrolytic	电解电容器	AB
C1020	VCCCPA1HH101J	J	100P	50V	Ceramic	陶瓷电容器	AA
C1021	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C1022	VCEAGA1HW104M	J	0.1	50V	Electrolytic	电解电容器	AA
C1024	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C1025	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C1026	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1027	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1028	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1029	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1030	VCCSPA1HL220J	J	22p	50V	Ceramic	陶瓷电容器	AA
C1092	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C1300	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AB
C1301	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C1303	VCCCPA1HH181J	J	180p	50V	Ceramic	陶瓷电容器	AA
C1304	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1401	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C1402	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1403	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C1404	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C1405	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1406	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1407	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C1408	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C1409	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1410	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C1411	VCCSPA1HL330J	J	33p	50V	Ceramic	陶瓷电容器	AA
C1412	VCE9GA1CW226M	J	22	16V	Electrolytic (N.P)	电解电容器(无极性)	AB
C1601	VCKYD41HB681K	J	680p	50V	Ceramic	陶瓷电容器	AA
C1602	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C1603	VCEAGA1HW225M	J	2.2	50V	Electrolytic	电解电容器	AB
C1604	VCQYTA1HM333J	J	0.033	50V	Mylar	聚酯树脂电容器	AA
C1605	VCEAGA1CW477M	J	470	16V	Electrolytic	电解电容器	AC
C1606	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AB
C1608	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C1609	VCEAGA1CW477M	J	470	16V	Electrolytic	电解电容器	AC
C1610	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C1611	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1612	VCFYHA1HA474J	J	0.47	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AD
C1613	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C1614	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AC
C1615	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA

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					CAPACITORS (Continued)	电容器(接上页)	
	C1616	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
	C1617	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
	C1618	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AC
	C1619	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
	C1620	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
	C1621	VCKYPA2HB222K	J	2200p	500V	Ceramic	陶瓷电容器	AA
	C1801	VCCCPA1HH220J	J	22p	50V	Ceramic	陶瓷电容器	AA
	C1802	VCCCPA1HH470J	J	47p	50V	Ceramic	陶瓷电容器	AB
	C1803	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
	C1804	VCCCPA1HH330J	J	33p	50V	Ceramic	陶瓷电容器	AA
	C1805	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
	C1806	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
	C1807	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
	C1808	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
	C1809	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
	C1810	VCCCPA1HH390J	J	39p	50V	Ceramic	陶瓷电容器	AA
	C1811	VCCCPA1HH330J	J	33p	50V	Ceramic	陶瓷电容器	AA
	C1812	VCCCPA1HH470J	J	47p	50V	Ceramic	陶瓷电容器	AB
	C1813	VCCCPA1HH390J	J	39p	50V	Ceramic	陶瓷电容器	AA
	C1815	VCCCPA1HH220J	J	22p	50V	Ceramic	陶瓷电容器	AA
					RESISTORS	电阻器	
	R201	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
	R202	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R203	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R204	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R205	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R206	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R207	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R208	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
	R209	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
	R210	VRD-RA2BE105J	J	1M	1/8W	Carbon	碳质电阻器	AA
	R211	VRD-RA2BE681J	J	680	1/8W	Carbon	碳质电阻器	AA
	R212	VRD-RA2BE224J	J	220k	1/8W	Carbon	碳质电阻器	AA
	R213	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R214	VRD-RA2BE683J	J	68k	1/8W	Carbon	碳质电阻器	AA
	R215	VRD-RA2BE124J	J	120k	1/8W	Carbon	碳质电阻器	AA
	R217	VRD-RA2BE184J	J	180k	1/8W	Carbon	碳质电阻器	AA
	R218	VRD-RA2BE221J	J	220	1/8W	Carbon	碳质电阻器	AA
	R219	VRD-RA2BE331J	J	330	1/8W	Carbon	碳质电阻器	AA
	R220	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	碳质电阻器	AA
	R221	VRD-RA2BE471J	J	470	1/8W	Carbon	碳质电阻器	AA
	R222	VRD-RA2BE471J	J	470	1/8W	Carbon	碳质电阻器	AA
	R223	VRD-RA2BE220J	J	22	1/8W	Carbon	碳质电阻器	AA
	R224	VRD-RA2BE821J	J	820	1/8W	Carbon	碳质电阻器	AA
	R225	VRD-RA2BE221J	J	220	1/8W	Carbon	碳质电阻器	AA
⚠	R227	VRG-RF2EB1R0J	J	1	1/4W	Fuse Resistor	电熔电阻器	AB
	R228	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R231	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R234	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA

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RESISTORS (Continued) 电阻器(接上页)

	R235	VRD-RA2HD471J	J	470	1/2W	Carbon	碳质电阻器	AA
⚠	R236	VRG-RF2EB220J	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
	R238	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	碳质电阻器	AA
	R240	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R242	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R243	VRD-RA2BE683J	J	68k	1/8W	Carbon	碳质电阻器	AA
	R244	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R245	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R301	VRD-RA2BE561J	J	560	1/8W	Carbon	碳质电阻器	AA
	R302	VRD-RA2BE561J	J	560	1/8W	Carbon	碳质电阻器	AA
	R303	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R305	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R306	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R307	VRD-RA2BE105J	J	1M	1/8W	Carbon	碳质电阻器	AA
	R308	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R309	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
	R312	VRD-RA2HD561J	J	560	1/2W	Carbon	碳质电阻器	AA
	R313	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
	R316	VRD-RA2HD561J	J	560	1/2W	Carbon	碳质电阻器	AA
	R317	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
	R322	VRD-RA2BE561J	J	560	1/8W	Carbon	碳质电阻器	AA
	R323	VRD-RA2BE561J	J	560	1/8W	Carbon	碳质电阻器	AA
	R324	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
	R325	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
	R328	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R329	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R330	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R331	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R332	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R333	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
⚠	R334	VRG-RF2EB2R2J	J	2.2	1/4W	Fuse Resistor	电熔电阻器	AB
	R335	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
⚠	R336	VRG-RF2EB2R2J	J	2.2	1/4W	Fuse Resistor	电熔电阻器	AB
	R337	VRD-RA2BE683J	J	68k	1/8W	Carbon	碳质电阻器	AA
	R338	VRD-RA2BE563J	J	56k	1/8W	Carbon	碳质电阻器	AA
	R339	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R340	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R341	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R342	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R343	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
⚠	R344	RR-XZ0035TAZZ	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
	R347	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
	R348	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R349	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
	R350	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R351	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R352	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
	R353	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R354	VRD-RA2BE224J	J	220k	1/8W	Carbon	碳质电阻器	AA
	R355	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
	R356	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA

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PWB-A DUNTK7654DE01
MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

RESISTORS (Continued) 电阻器(接上页)

	R357	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R358	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R361	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R362	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R363	VRD-RA2BE183J	J	18k	1/8W	Carbon	碳质电阻器	AA
	R364	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
⚠	R365	RR-XZ0035TAZZ	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
	R367	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
	R368	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	碳质电阻器	AA
	R369	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
	R370	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	碳质电阻器	AA
	R371	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
⚠	R372	RR-XZ0035TAZZ	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
	R373	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R374	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R375	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R376	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R377	VRD-RA2HD102J	J	1k	1/2W	Carbon	碳质电阻器	AA
	R378	VRD-RA2HD102J	J	1k	1/2W	Carbon	碳质电阻器	AA
	R379	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R380	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R381	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R382	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R383	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R384	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R385	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R386	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R388	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R389	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R390	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
⚠	R397	RR-XZ0035TAZZ	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
	R401	VRD-RA2BE271J	J	270	1/8W	Carbon	碳质电阻器	AA
	R402	VRD-RA2BE271J	J	270	1/8W	Carbon	碳质电阻器	AA
	R403	VRD-RA2BE271J	J	270	1/8W	Carbon	碳质电阻器	AA
⚠	R404	VRG-RF2EB220J	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
	R405	VRD-RA2HD471J	J	470	1/2W	Carbon	碳质电阻器	AA
	R406	VRD-RA2BE100J	J	10	1/8W	Carbon	碳质电阻器	AA
	R413	VRD-RA2BE181J	J	180	1/8W	Carbon	碳质电阻器	AA
⚠	R415	VRS-VV3AB102J	J	1k	1W	Metal Oxide	金属氧化膜电阻器	AA
	R416	VRD-RA2EE102J	J	1k	1/4W	Carbon	碳质电阻器	AA
	R417	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R418	VRD-RA2BE151J	J	150	1/8W	Carbon	碳质电阻器	AA
	R419	VRD-RA2BE331J	J	330	1/8W	Carbon	碳质电阻器	AA
	R420	VRD-RA2BE681J	J	680	1/8W	Carbon	碳质电阻器	AA
	R421	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R422	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	碳质电阻器	AA
	R423	VRD-RA2EE824J	J	820k	1/4W	Carbon	碳质电阻器	AA
	R425	VRD-RA2EE224J	J	220k	1/4W	Carbon	碳质电阻器	AA
	R431	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
	R432	VRD-RA2BE221J	J	220	1/8W	Carbon	碳质电阻器	AA
	R433	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	碳质电阻器	AA

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MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

RESISTORS (Continued) 电阻器(接上页)

R440	VRD-RA2HD102J	J	1k	1/2W	Carbon	碳质电阻器	AA
R441	VRD-RA2BE100J	J	10	1/8W	Carbon	碳质电阻器	AA
R444	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R445	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R463	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R466	VRD-RA2EE750J	J	75	1/4W	Carbon	碳质电阻器	AA
R483	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R484	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R486	VRD-RA2BE821J	J	820	1/8W	Carbon	碳质电阻器	AA
R488	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	碳质电阻器	AA
R491	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R492	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
R493	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
R494	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
R495	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
R496	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
R497	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
R498	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R501	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R502	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R503	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R504	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R505	VRS-VV3DB101J	J	100	2W	Metal Oxide	金属氧化膜电阻器	AA
R506	VRD-RA2BE683J	J	68k	1/8W	Carbon	碳质电阻器	AA
R507	VRD-RA2BE393J	J	39k	1/8W	Carbon	碳质电阻器	AA
R509	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
R510	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	碳质电阻器	AA
R511	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R513	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R514	VRD-RA2EE561J	J	560	1/4W	Carbon	碳质电阻器	AA
R515	VRD-RA2EE391J	J	390	1/4W	Carbon	碳质电阻器	AA
R516	VRD-RA2HB470J	J	47	1/2W	Fuse Resistor	电熔电阻器	AB
R517	VRD-RA2BE563J	J	56k	1/8W	Carbon	碳质电阻器	AA
R518	VRD-RA2BE563J	J	56k	1/8W	Carbon	碳质电阻器	AA
R519	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R520	VRD-RA2EE223J	J	22k	1/4W	Carbon	碳质电阻器	AA
R521	VRD-RA2EE223J	J	22k	1/4W	Carbon	碳质电阻器	AA
R522	VRD-RA2EE223J	J	22k	1/4W	Carbon	碳质电阻器	AA
R523	VRD-RA2BE224J	J	220k	1/8W	Carbon	碳质电阻器	AA
R524	VRD-RA2BE273J	J	27k	1/8W	Carbon	碳质电阻器	AA
R525	VRS-VV3DB152J	J	1.5V	2W	Metal Oxide	金属氧化膜电阻器	AA
R526	VRS-VV3DB221J	J	220	2W	Metal Oxide	金属氧化膜电阻器	AA
R527	VRS-VV3DB681J	J	680	2W	Metal Oxide	金属氧化膜电阻器	AA
R528	VRS-VV3DB102J	J	1k	2W	Metal Oxide	金属氧化膜电阻器	AA
R529	VRS-VV3DB151J	J	150	2W	Metal Oxide	金属氧化膜电阻器	AA
R530	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R531	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
R532	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
R533	VRD-RA2HD2R7J	J	2.7k	1/2W	Carbon	碳质电阻器	AA
R534	VRD-RA2HD2R7J	J	2.7k	1/2W	Carbon	碳质电阻器	AA
R535	VRD-RA2HD2R7J	J	2.7k	1/2W	Carbon	碳质电阻器	AA

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MAIN UNIT (Continued)

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主装置板(接上页)

RESISTORS (Continued) 电阻器(接上页)

R536	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R537	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
R802	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	碳质电阻器	AA
R803	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	碳质电阻器	AA
R807	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R808	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R809	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R811	VRD-RA2BE391J	J	390	1/8W	Carbon	碳质电阻器	AA
R813	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R814	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
R815	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R820	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R821	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R822	VRD-RA2BE181J	J	180	1/8W	Carbon	碳质电阻器	AA
R823	VRD-RA2BE224J	J	220k	1/8W	Carbon	碳质电阻器	AA
R824	VRD-RA2EE105J	J	1M	1/4W	Carbon	碳质电阻器	AA
R825	VRD-RA2EE105J	J	1M	1/4W	Carbon	碳质电阻器	AA
R1001	VRD-RA2HD101J	J	100	1/2W	Carbon	碳质电阻器	AA
R1002	VRD-RA2HD820J	J	82	1/2W	Carbon	碳质电阻器	AA
R1003	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
R1004	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1008	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
R1009	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
R1010	VRD-RA2BE821J	J	820	1/8W	Carbon	碳质电阻器	AA
R1011	VRD-RA2BE821J	J	820	1/8W	Carbon	碳质电阻器	AA
R1012	VRD-RA2BE564J	J	560k	1/8W	Carbon	碳质电阻器	AA
R1014	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1015	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1016	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1017	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1018	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1019	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1020	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1021	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1022	VRD-RA2HD122J	J	1.2k	1/2W	Carbon	碳质电阻器	AA
R1023	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R1024	VRS-VV3DB153J	J	15k	2W	Metal Oxide	金属氧化膜电阻器	AA
R1025	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R1026	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
R1027	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
R1028	VRD-RA2BE684J	J	680k	1/8W	Carbon	碳质电阻器	AA
R1029	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
R1030	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R1031	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1033	VRD-RA2BE563J	J	56k	1/8W	Carbon	碳质电阻器	AA
R1034	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
R1035	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R1036	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R1037	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1038	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1039	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	碳质电阻器	AA

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MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

RESISTORS (Continued)

电阻器(接上页)

R1040	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R1041	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R1042	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1044	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
R1045	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	碳质电阻器	AA
R1046	VRD-RA2BE822J	J	8.2k	1/8W	Carbon	碳质电阻器	AA
R1047	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	碳质电阻器	AA
R1048	VRD-RA2BE822J	J	8.2k	1/8W	Carbon	碳质电阻器	AA
R1049	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
R1050	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1051	VRD-RA2BE103J	J	1k	1/8W	Carbon	碳质电阻器	AA
R1052	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
R1053	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
R1054	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
R1055	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1056	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
R1057	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
R1058	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R1059	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
R1060	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R1061	VRD-RA2BE682J	J	6.8k	1/8W	Carbon	碳质电阻器	AA
R1062	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1063	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R1065	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1066	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1067	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1068	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1072	VRD-RA2BE392J	J	3.9k	1/8W	Carbon	碳质电阻器	AA
R1073	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	碳质电阻器	AA
R1074	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1076	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1077	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1078	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1080	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1081	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1082	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1083	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R1084	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1085	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R1086	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R1087	VRD-RA2BE563J	J	56k	1/8W	Carbon	碳质电阻器	AA
R1088	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R1089	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1090	VRD-RA2BE683J	J	68k	1/8W	Carbon	碳质电阻器	AA
R1091	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1092	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
R1093	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
R1094	VRD-RA2BE184J	J	180k	1/8W	Carbon	碳质电阻器	AA
R1095	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R1096	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R1097	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA

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PWB-A DUNTK7654DE01
MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

RESISTORS (Continued) 电阻器(接上页)

	R1130	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
	R1131	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1134	VRD-RA2HD471J	J	470	1/2W	Carbon	碳质电阻器	AA
	R1135	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R1136	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1137	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R1138	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R1139	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R1140	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R1141	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1142	VRD-RA2BE224J	J	220k	1/8W	Carbon	碳质电阻器	AA
	R1145	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1301	VRD-RA2BE561J	J	560	1/8W	Carbon	碳质电阻器	AA
	R1303	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	碳质电阻器	AA
	R1306	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
	R1307	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
	R1308	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
	R1309	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R1310	VRD-RA2BE393J	J	39k	1/8W	Carbon	碳质电阻器	AA
	R1311	VRD-RA2BE393J	J	39k	1/8W	Carbon	碳质电阻器	AA
	R1314	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R1315	VRD-RA2BE824J	J	820k	1/8W	Carbon	碳质电阻器	AA
	R1316	VRD-RA2BE331J	J	330	1/8W	Carbon	碳质电阻器	AA
	R1317	VRD-RA2BE271J	J	270	1/8W	Carbon	碳质电阻器	AA
	R1318	VRD-RA2BE331J	J	330	1/8W	Carbon	碳质电阻器	AA
	R1319	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R1320	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R1321	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R1324	VRD-RA2BE561J	J	560	1/8W	Carbon	碳质电阻器	AA
	R1325	VRD-RA2BE681J	J	680	1/8W	Carbon	碳质电阻器	AA
	R1401	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
⚠	R1402	VRG-RF2HB100J	J	10	1/2W	Fuse Resistor	电熔电阻器	AB
	R1403	VRD-RA2BE391J	J	390	1/8W	Carbon	碳质电阻器	AA
	R1404	VRD-RA2BE561J	J	560	1/8W	Carbon	碳质电阻器	AA
	R1405	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1406	VRD-RA2BE151J	J	150	1/8W	Carbon	碳质电阻器	AA
	R1407	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1408	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1409	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
⚠	R1410	VRG-RF2EB220J	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
	R1411	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R1412	VRD-RA2BE681J	J	680	1/8W	Carbon	碳质电阻器	AA
	R1413	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R1414	VRD-RA2BE273J	J	27k	1/8W	Carbon	碳质电阻器	AA
	R1415	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R1416	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	碳质电阻器	AA
	R1417	VRD-RA2BE122J	J	1.2k	1/8W	Carbon	碳质电阻器	AA
	R1418	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	碳质电阻器	AA
	R1420	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
	R1421	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	碳质电阻器	AA
	R1422	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA

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PWB-A DUNTK7654DE01
MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

RESISTORS (Continued) 电阻器(接上页)

	R1423	VRD-RA2BE222J	J	2.2k	1/8W	Carbon 碳质电阻器	AA
	R1424	VRD-RA2BE101J	J	100	1/8W	Carbon 碳质电阻器	AA
	R1425	VRD-RA2BE182J	J	1.8k	1/8W	Carbon 碳质电阻器	AA
	R1426	VRD-RA2BE562J	J	5.6k	1/8W	Carbon 碳质电阻器	AA
⚠	R1433	VRG-RF2EB220J	J	22	1/4W	Fuse Resistor 电熔电阻器	AB
	R1601	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA
	R1603	VRD-RA2BE102J	J	1k	1/8W	Carbon 碳质电阻器	AA
	R1604	VRD-RA2BE102J	J	1k	1/8W	Carbon 碳质电阻器	AA
	R1605	VRD-RA2BE102J	J	1k	1/8W	Carbon 碳质电阻器	AA
	R1606	VRD-RA2BE473J	J	47k	1/8W	Carbon 碳质电阻器	AA
	R1607	VRD-RA2BE473J	J	47k	1/8W	Carbon 碳质电阻器	AA
	R1608	VRD-RA2BE272J	J	2.7k	1/8W	Carbon 碳质电阻器	AA
	R1609	VRD-RA2BE332J	J	3.3k	1/8W	Carbon 碳质电阻器	AA
	R1611	VRD-RA2HD332J	J	3.3k	1/2W	Carbon 碳质电阻器	AA
	R1614	VRD-RA2BE224J	J	220k	1/8W	Carbon 碳质电阻器	AA
	R1615	VRD-RA2BE223J	J	22k	1/8W	Carbon 碳质电阻器	AA
	R1616	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA
	R1617	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA
	R1618	VRD-RA2BE272J	J	2.7k	1/8W	Carbon 碳质电阻器	AA
	R1619	VRD-RA2BE473J	J	47k	1/8W	Carbon 碳质电阻器	AA
	R1620	VRD-RA2EE334J	J	330k	1/4W	Carbon 碳质电阻器	AA
	R1621	VRD-RA2EE684J	J	680k	1/4W	Carbon 碳质电阻器	AA
⚠	R1623	VRG-RF2EB220J	J	22	1/4W	Fuse Resistor 电熔电阻器	AB
	R1624	VRD-RA2BE333J	J	33k	1/8W	Carbon 碳质电阻器	AA
	R1625	VRD-RA2BE822J	J	8.2k	1/8W	Carbon 碳质电阻器	AA
	R1626	VRD-RA2BE473J	J	47k	1/8W	Carbon 碳质电阻器	AA
	R1627	VRD-RA2BE473J	J	47k	1/8W	Carbon 碳质电阻器	AA
	R1628	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA
	R1629	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA
	R1630	VRD-RA2BE473J	J	47k	1/8W	Carbon 碳质电阻器	AA
	R1631	VRD-RA2BE473J	J	47k	1/8W	Carbon 碳质电阻器	AA
	R1632	VRD-RA2BE223J	J	22k	1/8W	Carbon 碳质电阻器	AA
	R1633	VRD-RA2BE223J	J	22k	1/8W	Carbon 碳质电阻器	AA
	R1634	VRD-RA2BE332J	J	3.3k	1/8W	Carbon 碳质电阻器	AA
	R1635	VRD-RA2BE473J	J	47k	1/8W	Carbon 碳质电阻器	AA
	R1636	VRD-RA2BE392J	J	3.9k	1/8W	Carbon 碳质电阻器	AA
	R1637	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA
	R1638	VRD-RA2BE223J	J	22k	1/8W	Carbon 碳质电阻器	AA
	R1639	VRD-RA2BE474J	J	470k	1/8W	Carbon 碳质电阻器	AA
	R1640	VRD-RA2BE223J	J	22k	1/8W	Carbon 碳质电阻器	AA
	R1642	VRD-RA2BE332J	J	3.3k	1/8W	Carbon 碳质电阻器	AA
	R1644	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA
	R1645	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA
	R1646	VRD-RA2BE332J	J	3.3k	1/8W	Carbon 碳质电阻器	AA
	R1650	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA
	R1651	VRD-RA2BE471J	J	470	1/8W	Carbon 碳质电阻器	AA
	R1652	VRD-RA2BE104J	J	100k	1/8W	Carbon 碳质电阻器	AA
	R1653	VRD-RA2BE102J	J	1k	1/8W	Carbon 碳质电阻器	AA
	R1654	VRD-RA2BE151J	J	150	1/8W	Carbon 碳质电阻器	AA
	R1655	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA
	R1656	VRD-RA2BE122J	J	1.2k	1/8W	Carbon 碳质电阻器	AA

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PWB-A DUNTK7654DE01
MAIN UNIT (Continued)

PWB-A DUNTK7654DE01
主装置板(接上页)

RESISTORS (Continued) 电阻器(接上页)

	R1657	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R1658	VRD-RA2BE474J	J	470k	1/8W	Carbon	碳质电阻器	AA
	R1801	VRD-RA2BE222J	J	2.2k	1/8W	Carbon	碳质电阻器	AA
	R1802	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1804	VRD-RA2BE392J	J	3.9k	1/8W	Carbon	碳质电阻器	AA
	R1805	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1806	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R1807	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
⚠	R1808	VRG-RF2EB220J	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
	R1809	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
	R1810	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
	R1811	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
	R1812	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	碳质电阻器	AA
	R1813	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	碳质电阻器	AA
	R1814	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R1815	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R1816	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R1817	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R1818	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1819	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R1820	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1821	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R1822	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA

SWITCHES 开 关

	S401	QSW-B0015CEZZ	J	Vertical Center	垂直中心开关	AC
	S501	QSW-B0015CEZZ	J	Vertical Center	垂直中心开关	AC

MISCELLANEOUS PARTS 其它零件

	FB401	RBLN-0036CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
	FB1000	RBLN-0036CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
	FB402	RBLN-0043CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
⚠	J401	QTANJ0814CEZZ	J	Jack, A/V Input/Output	音频/视频输入/输出插孔	AM

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PWB-B DUNTK7357DE02
KARAOKE UNIT

PWB-B DUNTK7357DE02
卡拉ＯＫ装置板

INTEGRATED CIRCUITS 集成电路

IC2301	VHiTA7668BP-1	J	TA7668BP		AF
IC2302	RH-iX1693CEZZ	J	XRA15218		AC
IC2303	VHiM50197P/-1	J	M50197P		AY
IC2304	VHiUPC78L05-4	J	UPC78L05J		AD

TRANSISTORS 晶体管

Q2301	VS2SA1266-Y-1	J	2SA1266 (Y)		AA
Q2302	VS2SC3198-G-1	J	2SC3198 (G)		AA

DIODES 二极管

D2301	RH-EX0165GEZZ	J	Zener Diode, 12V	齐纳二极管	AC
D2302	VHD1SS119//1E	J	1SS119		AA
D2303	VHD1SS119//1E	J	1SS119		AA
D2304	VHD1SS119//1E	J	1SS119		AA
D2305	RH-EX0341GEZZ	J	Zener Diode, 2.1V	齐纳二极管	AA

CERAMIC FILTER 陶瓷滤波器

CF2301	RFiLC0024GEZZ	J	Filter, 4MHz	滤波器	AE

CAPACITORS 电容器

C2301	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C2302	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C2303	VCKYPA1HB102K	J	1000p	50V	Ceramic	陶瓷电容器	AA
C2304	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C2305	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C2306	VCEAGA1HW335M	J	3.3	50V	Electrolytic	电解电容器	AB
C2307	VCQYTA1HM472J	J	4700p	50V	Mylar	聚酯树脂电容器	AB
C2308	VCEAGA1HW335M	J	3.3	50V	Electrolytic	电解电容器	AB
C2309	VCQYTA2HM472J	J	4700p	50V	Mylar	聚酯树脂电容器	AB
C2310	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C2311	VCQYTA1HM472J	J	4700p	50V	Mylar	聚酯树脂电容器	AB
C2312	VCKYPA1HB102K	J	1000p	50V	Ceramic	陶瓷电容器	AA
C2313	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C2314	VCEAGA1HW474M	J	0.47	50V	Electrolytic	电解电容器	AA
C2315	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C2316	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C2317	VCQYTA1HM472J	J	4700p	50V	Mylar	聚酯树脂电容器	AB
C2318	VCEAGA1HW335M	J	3.3	50V	Electrolytic	电解电容器	AB
C2319	VCEAGA1HW335M	J	3.3	50V	Electrolytic	电解电容器	AB
C2320	VCQYTA1HM472J	J	4700p	50V	Mylar	聚酯树脂电容器	AB
C2321	VCQYTA1HM472J	J	4700p	50V	Mylar	聚酯树脂电容器	AB
C2322	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C2323	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2324	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2325	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C2326	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2327	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB

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PWB-B DUNTK7357DE02
KARAOKE UNIT (Continued)

PWB-B DUNTK7357DE02
卡拉ＯＫ装置板(接上页)

CAPACITORS (Continued)　　电容器(接上页)

C2328	VCCSPA1HL101J	J	100p	50V	Ceramic	陶瓷电容器	AA
C2329	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C2330	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2331	VCFYHA1HA274J	J	0.27	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AC
C2332	VCCSPA1HL470J	J	47p	50V	Ceramic	陶瓷电容器	AA
C2333	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AC
C2334	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AC
C2335	VCE9AA1HW105M	J	1	50V	Electrolytic (N.P)	电解电容器(无极性)	AB
C2336	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2337	VCQYTA1HM562J	J	5600p	50V	Mylar	聚酯树脂电容器	AA
C2338	VCE9AA1HW105M	J	1	50V	Electrolytic (N.P)	电解电容器(无极性)	AB
C2339	VCKYPA1HB561K	J	560p	50V	Ceramic	陶瓷电容器	AA
C2340	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2341	VCQYTA1HM562J	J	5600p	50V	Mylar	聚酯树脂电容器	AA
C2342	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AC
C2343	VCKYPA1HB561K	J	560p	50V	Ceramic	陶瓷电容器	AA
C2344	VCFYHA1HA473J	J	0.047	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C2345	VCFYHA1HA473J	J	0.047	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C2346	VCFYHA1HA334J	J	0.33	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AC
C2347	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2348	VCFYHA1HA334J	J	0.33	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AC
C2349	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2350	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2351	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C2352	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C2353	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C2354	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2355	VCCCPA1HH270J	J	27p	50V	Ceramic	陶瓷电容器	AA
C2356	VCCCPA1HH270J	J	27p	50V	Ceramic	陶瓷电容器	AA
C2357	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C2358	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AC
C2359	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AC
C2360	VCEAGA1HW105M	J	1	50V	Electrolytic	电解电容器	AC
C2361	VCQYTA1HM223J	J	0.022	50V	Mylar	聚酯树脂电容器	AA
C2362	VCQYTA1HM823J	J	8200p	50V	Mylar	聚酯树脂电容器	AA
C2363	VCQYTA1HM153J	J	0.015	50V	Mylar	聚酯树脂电容器	AA
C2364	VCKYPA1HB102K	J	1000p	50V	Ceramic	陶瓷电容器	AA

RESISTORS　　电阻器

R2301	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R2302	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R2303	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
R2304	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2305	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
R2306	VRD-RA2BE184J	J	180k	1/8W	Carbon	碳质电阻器	AA
R2307	VRD-RA2BE392J	J	3.9k	1/8W	Carbon	碳质电阻器	AA
R2308	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R2309	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	碳质电阻器	AA
R2310	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2311	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA

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KARAOKE UNIT (Continued)

PWB-B DUNTK7357DE02
卡拉ＯＫ装置板(接上页)

RESISTORS (Continued)
电阻器(接上页)

R2312	VRD-RA2BE392J	J	3.9k	1/8W	Carbon	碳质电阻器	AA
R2313	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2314	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
R2315	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
R2316	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2317	VRD-RA2BE184J	J	180k	1/8W	Carbon	碳质电阻器	AA
R2318	VRD-RA2BE329J	J	3.9k	1/8W	Carbon	碳质电阻器	AA
R2319	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R2320	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	碳质电阻器	AA
R2321	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2322	VRD-RA2HD471J	J	470	1/2W	Carbon	碳质电阻器	AA
R2323	VRD-RA2HD471J	J	470	1/2W	Carbon	碳质电阻器	AA
R2324	VRD-RA2HD102J	J	1k	1/2W	Carbon	碳质电阻器	AA
R2325	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R2326	VRD-RA2BE392J	J	3.9k	1/8W	Carbon	碳质电阻器	AA
R2327	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2328	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
R2329	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R2330	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
R2331	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2332	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2333	VRD-RA2BE683J	J	68k	1/8W	Carbon	碳质电阻器	AA
R2334	VRD-RA2BE393J	J	39k	1/8W	Carbon	碳质电阻器	AA
R2335	VRD-RA2BE394J	J	390k	1/8W	Carbon	碳质电阻器	AA
R2336	VRD-RA2BE273J	J	27k	1/8W	Carbon	碳质电阻器	AA
R2337	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	碳质电阻器	AA
R2338	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
R2339	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R2340	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
R2341	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R2342	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2343	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R2344	VRD-RA2BE104J	J	100k	1/8W	Carbon	碳质电阻器	AA
R2345	VRD-RA2BE333J	J	33k	1/8W	Carbon	碳质电阻器	AA
R2346	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
R2347	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	碳质电阻器	AA
R2348	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R2349	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2350	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R2351	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R2352	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R2353	VRD-RA2BE154J	J	150k	1/8W	Carbon	碳质电阻器	AA
R2354	VRD-RA2BE154J	J	150k	1/8W	Carbon	碳质电阻器	AA
R2355	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R2356	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
R2357	VRD-RA2BE154J	J	150k	1/8W	Carbon	碳质电阻器	AA
R2358	VRD-RA2BE154J	J	150k	1/8W	Carbon	碳质电阻器	AA
R2359	VRD-RA2HDE820J	J	82	1/2W	Carbon	碳质电阻器	AA
R2360	VRD-RA2EE154J	J	1M	1/4W	Carbon	碳质电阻器	AA
R2363	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R2364	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA

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KARAOKE UNIT (Continued) 卡拉ＯＫ装置板(接上页)

RESISTORS (Continued) 电阻器(接上页)

R2365	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2366	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R2367	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
R2368	VRD-RA2HD680J	J	68	1/2W	Carbon	碳质电阻器	AA
R2369	VRD-RA2HD101J	J	100	1/2W	Carbon	碳质电阻器	AA

MISCELLANEOUS PARTS 其它零件

⚠ J2301	QJAKE0200GEZZ	J	Jack, Mic. 1,	麦克风 1 插孔	AF
⚠ J2302	QJAKE0200GEZZ	J	Jack, Mic. 2	麦克风 2 插孔	AF

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POWER UNIT 电源装置板

INTEGRATED CIRCUITS 集成电路

IC601	VHiLM358P//-1	J	LM358P		AC
IC602	VHiLM358P//-1	J	LM358P		AC
IC603	VHiTA7812S/-1	J	TA7812S		AD
IC604	VHiTA7812S/-1	J	TA7812S		AD
⚠ IC701	VHiSTRS6309-1	J	STRS6309		AU
⚠ IC702	RH-FX0012CEZZ	J	PC113		AF
IC703	VHiSE120N//-1	J	SE120N		AG

TRANSISTORS 晶体管

⚠ Q601	VS2SC3886A/1E	J	2SC3886 (A)		AP
Q602	VS2SC3328Y/1E	J	2SC3328 (Y)		AD
Q603	VS2SC3198-G-1	J	2SC3198		AA
Q604	VS2SC1827//2E	J	2SC1827		AF
⚠ Q605	VS2SD1910//2E	J	2SD1910		AK
Q606	VS2SC3198-G-1	J	2SC3198		AA
Q607	VS2SC3198-G-1	J	2SC3198		AA
Q609	VS2SC3198-G-1	J	2SC3198		AA
⚠ Q610	VS2SA1266-Y-1	J	2SA1266		AA
Q611	VS2SC3198-G-1	J	2SC3198		AA
⚠ Q612	VS2SA1266-Y-1	J	2SA1266		AA
⚠ Q613	VS2SC3198-G-1	J	2SC3198		AA
⚠ Q614	VS2SC3399//-1	J	2SC3399		AB
Q615	VS2SC3399//-1	J	2SC3399		AB
⚠ Q616	VS2SC3198-G-1	J	2SC3198		AA
⚠ Q701	VS2SC3198-Y-1	J	2SC3198		AA
⚠ Q702	VS2SA1013//1E	J	2SA1013		AD
Q703	VS2SC2229O/1E	J	2SA2229O		AD
Q704	VS2SC2229O/1E	J	2SA2229O		AD
Q705	VS2SC2238Y/-1	J	2SC2238(Y)		AF

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POWER UNIT (Continued)

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电源装置板(接上页)

			DIODES	二极管	
⚠ D601	RH-DX0229CEZZ	J			AF
⚠ D602	RH-DX0255CEZZ	J			AC
D603	RH-DX0062CEZZ	J			AD
D605	RH-DX0127CEZZ	J			AC
D606	RH-DX0130CEZZ	J			AE
D607	VHD1SS119//1E	J	1SS119		AA
D608	VHD1SS119//1E	J	1SS119		AA
D609	VHD1SS119//1E	J	1SS119		AA
D613	VHD1SS119//1E	J	1SS119		AA
D614	RH-DX0130CEZZ	J			AE
D616	VHD1SS119//1E	J	1SS119		AA
⚠ D617	RH-EX0181GEZZ	J	Zener Diode, 20V	齐纳二极管	AA
⚠ D618	VHD1SS119//1E	J	1SS119		AA
⚠ D619	RH-EX0051CEZZ	J	Zener Diode, 22V	齐纳二极管	AA
⚠ D620	VHD1SS119//1E	J	1SS119		AA
D621	RH-DX0302CEZZ	J			AC
⚠ D622	VHD1SS119//1E	J	1SS119		AA
⚠ D623	VHD1SS119//1E	J	1SS119		AA
⚠ D624	VHD1SS119//1E	J	1SS119		AA
⚠ D625	VHD1SS119//1E	J	1SS119		AA
D626	RH-DX0073CEZZ	J			AD
⚠ D627	VHD1SS119//1E	J	1SS119		AA
⚠ D628	RH-EX0127CEZZ	J	Zener Diode, 14V	齐纳二极管	AB
D629	VHD1SS119//1E	J	1SS119		AA
⚠ D630	RH-EX0151GEZZ	J			AA
⚠ D701	RH-DX0114CEZZ	J			AD
⚠ D702	RH-DX0055TAZZ	J			AD
⚠ D703	RH-DX0130CEZZ	J			AE
⚠ D704	RH-DX0164CEZZ	J			AC
⚠ D705	RH-DX0202CEZZ	J			AD
⚠ D706	VHD1SS119//1E	J	1SS119		AA
⚠ D707	VHD1SS119//1E	J	1SS119		AA
D708	RH-DX0130CEZZ	J			AE
D709	RH-DX0243CEZZ	J			AF
D710	RH-DX0382CEZZ	J			AD
⚠ D711	RH-EX0152CEZZ	J	Zener Diode, 135V	齐纳二极管	AE
D712	RH-DX0130CEZZ	J			AE
D714	RH-EX0613CEZZ	J	Zener Diode, 18V	齐纳二极管	AA
D715	RH-DX0243CEZZ	J			AF
⚠ D716	RH-DX0114CEZZ	J			AD
⚠ D717	RH-DX0114CEZZ	J			AD
⚠ D718	RH-DX0114CEZZ	J			AD
D719	RH-DX0130CEZZ	J			AE
D720	RH-DX0130CEZZ	J			AE
D723	RH-DX0130CEZZ	J			AE
⚠ D724	RH-DX0130CEZZ	J			AE
⚠ D725	RH-EX0089CEZZ	J	Zener Diode, 8.2V	齐纳二极管	AB
⚠ D726	VHD1SS119//1E	J	1SS119		AA
⚠ D727	VHD1SS119//1E	J	1SS119		AA
⚠ D728	RH-EX0253CEZZ	J	Zener Diode, 3.3V	齐纳二极管	AB
D729	RH-DX0130CEZZ	J			AE

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POWER UNIT (Continued)

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电源装置板(接上页)

			DIODES (Continued)	**二极管(接上页)**	
⚠ D730	VHD1SS119//1E	J	1SS119		AA
TH601	RH-HZ0006CEZZ	J	Thermistor	热敏电阻	AB
TH602	RH-HZ0005CEZZ	J	Thermistor	热敏电阻	AB
⚠ VA701	RH-VX0022CEZZ	J	Varistor	变阻器	AD
			PACKAGED CIRCUITS	**封装电路**	
⚠ PR701	RMPTP0062CEZZ	J	Positive Coefficient Thermistor	正温度特性热敏电阻	AH
⚠ R739	RR-DZ0013CEZZ	J	Resistor Array, 3.3M	电阻阵列, 3.3M	AD
			COILS	**线 圈**	
L601	VP-CF390K0000	J	39μH		AB
L602	RCiLZ0729CEZZ	J	Coil		AK
L604	RCiLZ0699CEZZ	J	Coil		AL
L605	RCiLP0087CEZZ	J	Coil		AE
⚠ L701	RCiLF0154CEZZ	J	Line Filter	线路滤波器	AQ
⚠ L702	RCiLF0181CEZZ	J	Coil		AP
L703	RCiLP0106CEZZ	J	Coil		AE
L704	RCiLP0106CEZZ	J	Coil		AE
L705	RCiLP0106CEZZ	J	Coil		AE
			TRANSFORMERS	**变压器**	
T601	RTRNZ0343CEZZ	J	Horizontal Drive	水平激励变压器	AG
⚠T602	RTRNF1892CEZZ	J	H-Volt Transformer	高压变压器	BD
⚠T701	RTRNZ0506CEZZ	J	Transformer	变压器	AW
			CONTROLS	**控制器**	
R629	RVR-B5265CEZZ	J	10k(B) Side-Pin.	两侧枕形畸变	AB
R632	RVR-M4342GEZZ	J	68k(B) Horizontal Size	水平尺寸	AB
			CAPACITORS	**电容器**	
C601	VCKYPA1HF103Z	J	0.01 50V Ceramic	陶瓷电容器	AA
C602	VCKYPA2HB472K	J	4700p 500V Ceramic	陶瓷电容器	AB
C603	VCKYPA2HB561K	J	560p 500V Ceramic	陶瓷电容器	AA
C604	VCEAGA1EW227M	J	220 25V Electrolytic	电解电容器	AC
C605	VCKYPA1HB102K	J	1000p 50V Ceramic	陶瓷电容器	AA
C607	VCFPPD2DB394J	J	0.39 200V Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AE
C608	VCFPPD2DB474J	J	0.47 200V Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AE
⚠ C609	VCFPPD3CA103H	J	0.01 1.6kV Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AE
⚠ C610	VCFPPD3CA103H	J	0.01 1.6kV Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AE
⚠ C612	RC-KZ0036CEZZ	J	330p 2kV Ceramic	陶瓷电容器	AB
⚠ C613	VCQPSC2JA393K	J	0.039 630V Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C614	VCFYHA1HA104J	J	0.1 50V Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
C615	VCFPPD2DB474J	J	0.47 200V Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AE
⚠ C616	VCFPPD3CA272H	J	2700p 1.6kV Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AE
⚠ C617	VCFPPD3CA222H	J	2200p 1.6kV Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AE
C618	VCKYPA2HB102K	J	1000p 500V Ceramic	陶瓷电容器	AA

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POWER UNIT (Continued)

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电源装置板(接上页)

CAPACITORS (Continued) 电容器(接上页)

	C619	VCEAGA2EW336M	J	33	250	Electrolytic	电解电容器	AD
	C620	VCKYPA2HB102K	J	1000p	500V	Ceramic	陶瓷电容器	AA
	C621	VCEAVA1VN108M	J	1000	35V	Electrolytic	电解电容器	AE
	C622	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
	C623	VCE9RH1HW475K	J	4.7	50V	Electrolytic (N.P)	电解电容器(无极性)	AF
	C624	VCEAGA1EW107M	J	100	25V	Electrolytic	电解电容器	AD
	C625	VCFYSB2EB224K	J	0.22	250V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AD
	C627	VCEAGA1CW337M	J	330	16V	Electrolytic	电解电容器	AC
	C628	VCEAGA1CW336M	J	33	16V	Electrolytic	电解电容器	AB
	C629	VCEAAA1HW104T	J	0.1	50V	Electrolytic	电解电容器	AB
	C630	VCEAGA1EW107M	J	100	25V	Electrolytic	电解电容器	AD
	C631	VCEAAA1HW104T	J	0.1	50V	Electrolytic	电解电容器	AB
	C632	VCQYVA1HA332J	J	3300p	50V	Mylar	聚酯树脂电容器	AA
	C633	VCEAGA1HW225M	J	2.2	50V	Electrolytic	电解电容器	AB
	C634	VCQYVA1HA103J	J	0.01	50V	Mylar	聚酯树脂电容器	AA
	C635	VCEAGA1HW335M	J	3.3	50V	Electrolytic	电解电容器	AB
	C636	VCE9AA1CW106M	J	10	16V	Electrolytic (N.P)	电解电容器(无极性)	AB
	C637	VCEAAA1HW104T	J	0.1	50V	Electrolytic	电解电容器	AB
	C638	RC-KZ0029CEZZ	J	0.01	250V	Ceramic	陶瓷电容器	AC
	C639	RC-EZ0322CEZZ	J	1000	25V	Electrolytic	电解电容器	AE
	C640	VCQYVA1HA682J	J	6800p	50V	Mylar	聚酯树脂电容器	AA
⚠	C642	VCEAGA0JW337M	J	330	6.3V	Electrolytic	电解电容器	AB
⚠	C643	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
⚠	C644	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
⚠	C645	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
	C646	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
	C647	VCEAGA1VW337M	J	330	35V	Electrolytic	电解电容器	AC
	C649	VCEAGA1CW337M	J	330	16V	Electrolytic	电解电容器	AC
	C650	VCEAGA1HW106M	J	10	50V	Electrolytic	电解电容器	AC
	C651	VCKYPA2HB222K	J	2200p	500V	Ceramic	陶瓷电容器	AA
	C652	VCQYVA1HA183J	J	0.018	50V	Mylar	聚酯树脂电容器	AA
	C653	VCKYPA2HB822K	J	8200p	50V	Ceramic	陶瓷电容器	AA
⚠	C654	VCEAGA1CW227M	J	220	16V	Electrolytic	电解电容器	AC
	C684	VCKYPA2HB102K	J	1000p	500V	Ceramic	陶瓷电容器	AA
⚠	C701	RC-FZ0010GEZZ	J	0.1	250V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AD
⚠	C702	RC-FZ0012GEZZ	J	0.22	250V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AE
⚠	C703	VCFYSB2EB224K	J	0.22	250V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AD
⚠	C704	RC-KZ0029CEZZ	J	0.01	250V	Ceramic	陶瓷电容器	AC
⚠	C705	RC-KZ0029CEZZ	J	0.01	250V	Ceramic	陶瓷电容器	AC
⚠	C706	RC-KZ0029CEZZ	J	0.01	250V	Ceramic	陶瓷电容器	AC
⚠	C707	RC-KZ0029CEZZ	J	0.01	250V	Ceramic	陶瓷电容器	AC
⚠	C708	RC-EZ0359CEZZ	J	270	400V	Electrolytic	电解电容器	AR
⚠	C709	VCQPSC2JA333K	J	0.033	630V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
⚠	C710	VCKYPH3DB561K	J	560p	2kV	Ceramic	陶瓷电容器	AC
⚠	C711	RC-KZ0024CEZZ	J	1000p	2kV	Ceramic	陶瓷电容器	AC
⚠	C713	VCEAVA1HN227M	J	220	50V	Electrolytic	电解电容器	AC
⚠	C714	VCFYHA1HA104J	J	0.1	50V	Metallized Polypro Film	敷金属聚丙烯薄膜电容器	AB
⚠	C716	VCSATA1VE106K	J	10	35V	Tantalum	钽电容器	AE
⚠	C717	VCEAGA1VW226M	J	22	35V	Electrolytic	电解电容器	AA
⚠	C718	VCQYTA1HM152J	J	1500P	50V	Mylar	聚酯树脂电容器	AA
⚠	C719	RC-KZ0155CEZZ	J	680p	4kV	Ceramic	陶瓷电容器	AE

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电源装置板(接上页)

CAPACITORS (Continued)

电容器(接上页)

	C721	RC-KZ0029CEZZ	J	0.01	250V	Ceramic	陶瓷电容器	AC
	C722	VCKYPA2HB102K	J	1000p	500V	Ceramic	陶瓷电容器	AA
	C723	VCEAGA1EW108M	J	1000	25V	Electrolytic	电解电容器	AD
	C724	VCEAGA1EW337M	J	330	25V	Electrolytic	电解电容器	AC
	C725	RC-KZ0024CEZZ	J	1000p	2kV	Ceramic	陶瓷电容器	AC
	C726	RC-EZ0069CEZZ	J	220	160V	Electrolytic	电解电容器	AG
	C727	RC-EZ0070CEZZ	J	330	160V	Electrolytic	电解电容器	AH
	C729	VCKYPA2HB102K	J	1000p	500V	Ceramic	陶瓷电容器	AA
	C730	VCEAGA2AW107M	J	100	100V	Electrolytic	电解电容器	AD
	C732	VCKYPA2HB102K	J	1000p	500V	Ceramic	陶瓷电容器	AA
	C733	RC-EZ0322CEZZ	J	1000	25V	Electrolytic	电解电容器	AE
	C734	VCEAGA1EW227M	J	220	25V	Electrolytic	电解电容器	AC
⚠	C735	VCQYTA1HM393J	J	0.039	50V	Mylar	聚酯树脂电容器	AA
	C736	VCKYPA2HB102K	J	1000p	500V	Ceramic	陶瓷电容器	AA
	C737	VCQYTA1HM104J	J	0.1	50V	Mylar	聚酯树脂电容器	AA
⚠	C738	VCKYPA1HB221K	J	220P	50V	Ceramic	陶瓷电容器	AA
⚠	C739	VCKYPH3DB561K	J	560p	2kV	Ceramic	陶瓷电容器	AC
⚠	C741	VCKYPA1HB471K	J	470P	50V	Ceramic	陶瓷电容器	AA
	C745	VCEAGA1HW224M	J	0.22	50V	Electrolytic	电解电容器	AA
⚠	C748	RC-KZ0207CEZZ	J	100p	4kV	Ceramic	陶瓷电容器	AC

RESISTORS

电阻器

	R601	VRD-RA2HD470J	J	47	1/2W	Carbon	碳质电阻器	AA
	R602	VRD-RA2HD820J	J	82	1/2W	Carbon	碳质电阻器	AA
	R604	VRD-RA2EE221J	J	220	1/4W	Carbon	碳质电阻器	AA
	R605	VRD-RA2HD471J	J	470	1/2W	Carbon	碳质电阻器	AA
	R606	VRD-RA2EE102J	J	1k	1/4W	Carbon	碳质电阻器	AA
	R607	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
	R608	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R609	VRS-VV3DB561J	J	560	2W	Metal Oxide	金属氧化膜电阻器	AA
	R610	VRN-VV3DB4R7J	J	4.7	2W	Metal Film	金属薄膜电阻器	AB
	R611	VRD-RA2EE222J	J	2.2k	1/4W	Carbon	碳质电阻器	AA
⚠	R612	VRG-RF2HB220J	J	22	1/2W	Fuse Resistor	电熔电阻器	AB
	R613	VRS-VV3DB680J	J	68	2W	Metal Oxide	金属氧化膜电阻器	AA
	R614	RR-WZ0141CEZZ	J	3.3	15W	Cement	水泥电阻器	AE
	R615	VRS-VV3DB470J	J	47	2W	Metal Oxide	金属氧化膜电阻器	AA
⚠	R616	VRG-RF2HB1R0J	J	1	1/2W	Fuse Resistor	电熔电阻器	AA
⚠	R617	VRG-RF2HB3R3J	J	3.3	1/2W	Fuse Resistor	电熔电阻器	AB
	R618	VRD-RA2EE471J	J	470	1/4W	Carbon	碳质电阻器	AA
	R619	VRD-RA2HD331J	J	330	1/2W	Carbon	碳质电阻器	AA
	R620	VRD-RA2EE560J	J	56	1/4W	Carbon	碳质电阻器	AA
	R621	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
	R622	VRD-RA2BE124J	J	120k	1/8W	Carbon	碳质电阻器	AA
	R623	VRD-RA2EE564J	J	560k	1/4W	Carbon	碳质电阻器	AA
	R624	VRD-RA2EE125J	J	1.2M	1/4W	Carbon	碳质电阻器	AA
	R625	VRD-RA2EE564J	J	560k	1/4W	Carbon	碳质电阻器	AA
	R626	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	碳质电阻器	AA
	R627	VRD-RA2BE564J	J	560k	1/8W	Carbon	碳质电阻器	AA
	R628	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R630	VRD-RA2EE152J	J	1.5k	1/4W	Carbon	碳质电阻器	AA

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电源装置板(接上页)

RESISTORS (Continued) 电阻器(接上页)

⚠	R631	VRG-RF2EB470J	J	47	1/4W	Fuse Resistor	电熔电阻器	AB
	R633	VRD-RA2BE563J	J	56k	1/8W	Carbon	碳质电阻器	AA
	R634	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
	R635	VRD-RA2EE103J	J	10k	1/4W	Carbon	碳质电阻器	AA
	R636	VRD-RA2BE562J	J	5.6k	1/8W	Carbon	碳质电阻器	AA
	R637	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
	R638	VRD-RA2BE273J	J	27k	1/8W	Carbon	碳质电阻器	AA
	R639	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
	R640	VRD-RA2EE393J	J	39k	1/4W	Carbon	碳质电阻器	AA
	R641	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
	R642	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R643	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R644	VRN-VV3LB1R8J	J	1.8	3W	Metal Film	金属薄膜电阻器	AC
	R647	VRD-RA2EE393J	J	39k	1/4W	Carbon	碳质电阻器	AA
	R648	VRS-SU2HB102J	J	1k	1/2W	Metal Oxide	金属氧化膜电阻器	AA
	R649	VRS-VV3LB222J	J	2.2k	3W	Metal Film	金属薄膜电阻器	AB
	R650	VRD-RA2HD102J	J	1k	1/2W	Carbon	碳质电阻器	AA
	R651	VRD-RA2EE332J	J	3.3k	1/4W	Carbon	碳质电阻器	AA
⚠	R655	VRG-RF2EB470J	J	47	1/4W	Fuse Resistor	电熔电阻器	AB
	R657	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R658	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
	R659	VRD-RA2EE122J	J	1.2k	1/4W	Carbon	碳质电阻器	AA
	R660	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
	R663	VRD-RA2EE471J	J	470	1/4W	Carbon	碳质电阻器	AA
	R664	VRD-RA2BE123J	J	12k	1/8W	Carbon	碳质电阻器	AA
	R665	VRD-RA2BE153J	J	15k	1/8W	Carbon	碳质电阻器	AA
	R666	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
	R667	VRD-RA2BE274J	J	270k	1/8W	Carbon	碳质电阻器	AA
	R668	VRD-RA2BE274J	J	270k	1/8W	Carbon	碳质电阻器	AA
	R669	VRD-RA2BE274J	J	270k	1/8W	Carbon	碳质电阻器	AA
	R670	VRD-RA2BE274J	J	270k	1/8W	Carbon	碳质电阻器	AA
	R671	VRD-RA2EE182J	J	1.8k	1/4W	Carbon	碳质电阻器	AA
	R672	VRD-RA2BE393J	J	39k	1/8W	Carbon	碳质电阻器	AA
	R673	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
	R674	VRD-RA2HD102J	J	1k	1/2W	Carbon	碳质电阻器	AA
	R675	VRD-RA2HD152J	J	1.5k	1/2W	Carbon	碳质电阻器	AA
	R676	VRD-RA2HD152J	J	1.5k	1/2W	Carbon	碳质电阻器	AA
	R677	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA
	R678	VRS-VV3DB220J	J	22	2W	Metal Oxide	金属氧化膜电阻器	AA
⚠	R679	VRN-VV3DB1R0J	J	1	2W	Metal Film	金属薄膜电阻器	AB
⚠	R680	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
⚠	R681	VRD-RA2BE272J	J	2.7k	1/8W	Carbon	碳质电阻器	AA
⚠	R682	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
⚠	R683	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
⚠	R684	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
	R685	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
⚠	R686	VRG-RF2HB2R2J	J	2.2	1/2W	Fuse Resistor	电熔电阻器	AB
	R687	VRW-KX3HC150K	J	15	5W	Cement	水泥电阻器	AD
	R688	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
	R689	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
⚠	R690	VRD-RA2BE102J	J	1k	1/8W	Carbon	碳质电阻器	AA

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POWER UNIT (Continued)

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电源装置板(接上页)

RESISTORS (Continued) 电阻器(接上页)

	R691	VRD-RA2EE101J	J	100	1/4W	Carbon	碳质电阻器	AA
	R692	VRD-RA2EE563J	J	56k	1/4W	Carbon	碳质电阻器	AA
⚠	R693	VRD-RA2EE102J	J	1k	1/4W	Carbon	碳质电阻器	AA
	R694	RR-WZ0143CEZZ	J	2.7k	10W	Cement	水泥电阻器	AD
⚠	R695	VRD-RA2BE273J	J	27k	1/8W	Carbon	碳质电阻器	AA
⚠	R696	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
⚠	R697	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
⚠	R698	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
⚠	R701	VRD-RA2HD391J	J	390	1/2W	Carbon	碳质电阻器	AA
⚠	R702	RR-WZ0138CEZZ	J	4.7	15W	Cement	水泥电阻器	AE
⚠	R703	VRD-RA2HD273J	J	27k	1/2W	Carbon	碳质电阻器	AA
⚠	R704	VRD-RA2HD273J	J	27k	1/2W	Carbon	碳质电阻器	AA
⚠	R705	VRD-RA2HD273J	J	27k	1/2W	Carbon	碳质电阻器	AA
⚠	R706	VRD-RA2HD273J	J	27k	1/2W	Carbon	碳质电阻器	AA
⚠	R707	VRD-RA2HD153J	J	15k	1/2W	Carbon	碳质电阻器	AA
⚠	R708	VRS-VV3DB473J	J	47k	2W	Metal Oxide	金属氧化膜电阻器	AA
⚠	R709	VRS-VV3DB393J	J	39k	2W	Metal Oxide	金属氧化膜电阻器	AA
⚠	R712	VRS-SV3LB333J	J	33k	3W	Metal Oxide	金属氧化膜电阻器	AC
⚠	R713	VRS-VV3LB561J	J	560	3W	Metal Oxide	金属氧化膜电阻器	AB
⚠	R714	VRW-KX3HC220K	J	22	5W	Cement	水泥电阻器	AD
⚠	R716	RR-WZ0086CEZZ	J	0.39	3W	Cement	水泥电阻器	AC
⚠	R717	VRD-RA2HD101J	J	100	1/2W	Carbon	碳质电阻器	AA
⚠	R718	VRD-RA2HD273J	J	27k	1/2W	Carbon	碳质电阻器	AA
⚠	R720	VRD-RA2HD681J	J	680	1/2W	Carbon	碳质电阻器	AA
⚠	R722	VRC-UA2HG825M	J	8.2M	1/2W	Solid	固体电阻器	AA
⚠	R723	VRC-UA2HG825M	J	8.2M	1/2W	Solid	固体电阻器	AA
	R724	VRD-RA2HD822J	J	8.2k	1/2W	Carbon	碳质电阻器	AA
	R725	VRD-RA2HD473J	J	47k	1/2W	Carbon	碳质电阻器	AA
	R726	VRD-RA2HD332J	J	3.3k	1/2W	Carbon	碳质电阻器	AA
	R727	VRS-VV3DB123J	J	12k	2W	Metal Oxide	金属氧化膜电阻器	AA
⚠	R730	VRD-RA2HD471J	J	470	1/2W	Carbon	碳质电阻器	AA
⚠	R731	VRD-RA2HD101J	J	100	1/2W	Carbon	碳质电阻器	AA
⚠	R732	VRD-RA2HD100J	J	10	1/2W	Carbon	碳质电阻器	AA
⚠	R734	VRD-RA2HD152J	J	1.5k	1/2W	Carbon	碳质电阻器	AA
	R735	VRS-VV3AB332J	J	3.3k	1W	Metal Oxide	金属氧化膜电阻器	AA
	R740	VRN-VV3DBR56J	J	0.56	2W	Metal Film	金属薄膜电阻器	AA
	R741	VRN-VV3DBR56J	J	0.56	2W	Metal Film	金属薄膜电阻器	AA
	R742	VRD-RA2HD183J	J	18k	1/2W	Carbon	碳质电阻器	AA
⚠	R745	VRD-RA2HD122J	J	1.2k	1/2W	Carbon	碳质电阻器	AA
⚠	R748	VRD-RA2HD102J	J	1k	1/2W	Carbon	碳质电阻器	AA
⚠	R749	VRD-RA2HD392J	J	3.9k	1/2W	Carbon	碳质电阻器	AA
⚠	R750	VRD-RA2EE101J	J	100	1/4W	Carbon	碳质电阻器	AA
	R751	VRS-SV3LB331J	J	330	3W	Metal Oxide	金属氧化膜电阻器	AC
⚠	R754	VRD-RA2HD4R7J	J	4.7	1/2W	Carbon	碳质电阻器	AA
	R756	VRD-RA2HD223J	J	22k	1/2W	Carbon	碳质电阻器	AA

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PWB-C DUNTK7361DE02
POWER UNIT (Continued)

PWB-C DUNTK7361DE02
电源装置板(接上页)

MISCELLANEOUS PARTS 其它零件

⚠	F701	QFS-C3224CEZZ	J	Fuse, T3.15A	保险丝, T3.15A	AD
	FB601	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
	FB602	RBLN-0010CEZZ	J	Ferrite Bead	铁氧体磁珠	AC
	FB603	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
⚠	FB701	RBLN-0010CEZZ	J	Ferrite Bead	铁氧体磁珠	AC
⚠	FB702	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
⚠	FB703	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
	FB705	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
	FB706	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
	FB708	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
	FB710	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
⚠	FB711	RBLN-0010CEZZ	J	Ferrite Bead	铁氧体磁珠	AC
	FB712	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
⚠	FB713	RBLN-0010CEZZ	J	Ferrite Bead	铁氧体磁珠	AC
⚠	FB715	RBLN-0010CEZZ	J	Ferrite Bead	铁氧体磁珠	AC
⚠	FB716	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
	FB717	RBLN-0010CEZZ	J	Ferrite Bead	铁氧体磁珠	AC

PWB-D DUNTK7362DE02
CRT SOCKET UNIT

PWB-D DUNTK7362DE02
阴极射线管装置板

TRANSISTORS 晶体管

	Q2801	VS2SC4544LB1E	J	2SC4544		AD
	Q2802	VS2SC4544LB1E	J	2SC4544		AD
	Q2803	VS2SC4544LB1E	J	2SC4544		AD

COILS 线 圈

	L2801	VP-2K221K000K	J	220μH		AB
	L2802	VP-2K221K000K	J	220μH		AB
	L2803	VP-2K221K000K	J	220μH		AB

CONTROLS 控制器

	R2803	RVR-B5466CEZZ	J	300(B)	G-Drive	绿色激励	AC
	R2804	RVR-B5466CEZZ	J	300(B)	B-Drive	蓝色激励	AC
	R2815	RVR-B5543CEZZ	J	20k(B)	R-Bias	红色偏转	AC
	R2827	RVR-B5543CEZZ	J	20k(B)	G-Bias	绿色偏转	AC
	R2828	RVR-B5543CEZZ	J	20k(B)	B-Bias	蓝色偏转	AC

CAPACITORS 电容器

	C2801	VCEAGA1HW106M	J	10	50V	Electrolytic	电解电容器	AC
	C2802	VCKYAT1HB561K	J	560p	50V	Ceramic	陶瓷电容器	AA
	C2803	VCKYAT1HB681K	J	680p	50V	Ceramic	陶瓷电容器	AA
	C2804	VCKYAT1HB821K	J	820p	50V	Ceramic	陶瓷电容器	AA
	C2805	VCEAGA2EW336M	J	33	250V	Electrolytic	电解电容器	AD
⚠	C2806	VCKYPH3DB271K	J	270p	2k	Ceramic	陶瓷电容器	AC

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PWB-D DUNTK7362DE02
CRT UNIT (Continued)

PWB-D DUNTK7362DE02
阴极射线管装置板(接上页)

RESISTORS 电阻器

	R2801	VRD-RA2BE221J	J	220	1/8W	Carbon 碳质电阻器	AA
	R2802	VRD-RA2BE101J	J	100	1/8W	Carbon 碳质电阻器	AA
	R2805	VRD-RA2BE221J	J	220	1/8W	Carbon 碳质电阻器	AA
	R2806	VRD-RA2BE221J	J	220	1/8W	Carbon 碳质电阻器	AA
	R2807	VRD-RA2BE221J	J	220	1/8W	Carbon 碳质电阻器	AA
	R2808	VRD-RA2BE562J	J	5.6k	1/8W	Carbon 碳质电阻器	AA
	R2809	VRD-RA2BE181J	J	180	1/8W	Carbon 碳质电阻器	AA
	R2810	VRD-RA2BE181J	J	180	1/8W	Carbon 碳质电阻器	AA
	R2811	VRD-RA2BE181J	J	180	1/8W	Carbon 碳质电阻器	AA
	R2812	VRD-RA2BE222J	J	2.2k	1/8W	Carbon 碳质电阻器	AA
	R2813	VRD-RA2BE222J	J	2.2k	1/8W	Carbon 碳质电阻器	AA
	R2814	VRD-RA2BE222J	J	2.2k	1/8W	Carbon 碳质电阻器	AA
	R2816	VRS-VW3DB183J	J	18k	2W	Metal Oxide 金属氧化膜电阻器	AA
	R2817	VRS-VW3DB153J	J	15k	2W	Metal Oxide 金属氧化膜电阻器	AA
	R2818	VRS-VW3DB153J	J	15k	2W	Metal Oxide 金属氧化膜电阻器	AA
	R2819	VRS-VW3DB183J	J	18k	2W	Metal Oxide 金属氧化膜电阻器	AA
	R2820	VRS-VW3DB183J	J	18k	2W	Metal Oxide 金属氧化膜电阻器	AA
	R2821	VRS-VW3DB153J	J	15k	2W	Metal Oxide 金属氧化膜电阻器	AA
	R2822	VRC-MA2HG124M	J	120k	1/2W	Solid 固体电阻器	AA
	R2823	VRC-MA2HG392M	J	3.9k	1/2W	Solid 固体电阻器	AA
	R2824	VRC-MA2HG332M	J	3.3k	1/2W	Solid 固体电阻器	AA
	R2825	VRC-MA2HG332M	J	3.3k	1/2W	Solid 固体电阻器	AA
	R2826	VRC-RA2HD221J	J	220	1/2W	Carbon 碳质电阻器	AA

MISCELLANEOUS PARTS 其它零件

	FB2801	RBLN-0037CEZZ	J	Ferrite Bead	铁氧体磁珠	AB
⚠		QSOCV0916CEZZ	J	CRT Socket	阴极射线管插座	AH
⚠	SG2801	QSPGC0015CEZZ	J	Spark Gap	放电器	AB

PWB-E DUNTK7358DE02
CONTROL UNIT

PWB-E DUTNK7358DE02
控制装置板

DIODES 二极管

D1105	VHD1SS119//1E	J	1SS119		AA
D1106	VHD1SS119//1E	J	1SS119		AA

CONTROLS 控制器

⚠	R1105	RVR-B5633CEZZ	J	Echo-Volume	回声音量	AD
⚠	R1106	RVR-B5633CEZZ	J	Mic.-1 Volume	麦克风-1音量	AD
⚠	R1107	RVR-B5633CEZZ	J	Mic.-2 Volume	麦克风-2音量	AD

RESISTORS 电阻器

	R1108	VRD-RA2BE101J	J	100	1/8W	Carbon 碳质电阻器	AA
	R1109	VRD-RA2BE103J	J	10k	1/8W	Carbon 碳质电阻器	AA

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PWB-E DUNTK7358DE02
CONTROL UNIT (Continued)

PWB-E DUNTK7358DE02
控制装置板(接上页)

SWITCHES 开 关

⚠ S1101	QSW-K0095CEZZ	J	System	系统开关	AB
⚠ S1102	QSW-K0095CEZZ	J	Channel Up	频道上移开关	AB
⚠ S1103	QSW-K0095CEZZ	J	Channel Down	频道下移开关	AB
⚠ S1104	QSW-K0095CEZZ	J	Sound Up	音量增大开关	AB
⚠ S1105	QSW-K0095CEZZ	J	Sound Down	音量减小开关	AB
⚠ S1106	QSW-K0095CEZZ	J	P-Mode	图象方式开关	AB
⚠ S1107	QSW-K0095CEZZ	J	S-Mode	音响方式开关	AB
⚠ S1108	QSW-K0095CEZZ	J	Preset	预调开关	AB
⚠ S1109	QSW-P0571CEZZ	J	S-System	音响系统开关	AE

PWB-F DUNTK7359DE02
LED UNIT

PWB-F DUNTK7359DE02
发光二极管装置板

DIODES 二极管

D1101	RH-PX0291CEZZ	J	LED	发光二极管	AC
D1102	RH-PX0274CEZZ	J	LED	发光二极管	AC
D1103	RH-PX0274CEZZ	J	LED	发光二极管	AC
D1104	RH-PX0274CEZZ	J	LED	发光二极管	AC
D1107	RH-EX0123GEZZ	J	Zener Diode, 3.6V	齐纳二极管	AA

CAPACITORS 电容器

C1101	VCEAGA1HW106M	J	10	50V	Electrolytic	电解电容器	AC
C1102	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA

RESISTORS 电阻器

R1101	VRD-RA2HD471J	J	470	1/2W	Carbon	碳质电阻器	AA
R1102	VRD-RA2EE182J	J	1.8k	1/4W	Carbon	碳质电阻器	AA
R1103	VRD-RA2EE182J	J	1.8k	1/4W	Carbon	碳质电阻器	AA
R1104	VRD-RA2EE182J	J	1.8k	1/4W	Carbon	碳质电阻器	AA
R1112	VRD-RA2EE101J	J	100	1/4W	Carbon	碳质电阻器	AA
R1113	VRD-RA2EE101J	J	100	1/4W	Carbon	碳质电阻器	AA

SWITCH 开 关

⚠ S1701	QSW-P0566CEZZ	J	Power	电源开关	AL

MISCELLANEOUS PARTS 其它零件

	RRMCU0200CEZZ	J	Remote Control Receiver	遥控信号接收机	AL

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PWM-A DUNTK7655DE01
A/V UNIT

PWM-A DUNTK7655DE01
音频/视频装置板

INTEGRATED CIRCUIT 集成电路

IC401	VHiM51321P/-1	J	M51321P		AL

TRANSISTORS 晶体管

Q302	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q303	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q304	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q305	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q411	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q412	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q414	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q415	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q416	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q417	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q419	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q420	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1408	VS2SC3198-G-1	J	2SC3198 (G)		AA
Q1450	VS2SA1266-Y-1	J	2SA1266 (Y)		AA

DIODES 二极管

D414	VHD1SS119//1E	J	1SS119		AA
D415	VHD1SS119//1E	J	1SS119		AA

COILS 线 圈

L402	VP-DF150K0000	J	15μH		AB
L403	VP-DF330K0000	J	33μH		AB
L404	VP-DF8R2K0000	J	8.2μH		AB

CERAMIC FILTERS 陶瓷滤波器

CF401	RFiLC0150CEZZ	J	5.5/6.0MHz	Trap	陷波器	AF
CF402	RFiLC0024CEZZ	J	6.5MHz	Trap	陷波器	AE
CF1450	RFiLC0228CEZZ	J	5.74MHz	Trap	陷波器	AF

CAPACITORS 电容器

C309	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C310	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C311	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C313	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C315	VCEAGA1CW226M	J	22	16V	Electrolytic	电解电容器	AB
C316	VCEAGA1CW226M	J	22	16V	Electrolytic	电解电容器	AB
C317	VCE9GA1HW335M	J	3.3	50V	Electrolytic (N.P)	电解电容器(无极性)	AB
C318	VCE9GA1HW335M	J	3.3	50V	Electrolytic (N.P)	电解电容器(无极性)	AB
C321	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C322	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C426	VCCCPA1HH680J	J	68p	50V	Ceramic	陶瓷电容器	AA
C428	VCEAGA1CW106M	J	10	16V	Electrolytic	电解电容器	AA
C429	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PWM-A DUNTK7655DE01
A/V UNIT (Continued)

PWM-A DUNTK7655DE01
音频/视频装置板(接上页)

CAPACITORS (Continued) 电容器(接上页)

C430	VCEAGA1CW226M	J	22	16V	Electrolytic	电解电容器	AB
C432	VCEAGA1CW107M	J	100	16V	Electrolytic	电解电容器	AB
C433	VCEAGA1CW477M	J	470	16V	Electrolytic	电解电容器	AC
C434	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C435	VCEAGA1CW477M	J	470	16V	Electrolytic	电解电容器	AC
C436	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C438	VCEAGA1HW475M	J	4.7	50V	Electrolytic	电解电容器	AB
C441	VCEAGA1CW477M	J	470	16V	Electrolytic	电解电容器	AC
C442	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA
C443	VCEAGA1CW476M	J	47	16V	Electrolytic	电解电容器	AB
C444	VCKYPA1HF103Z	J	0.01	50V	Ceramic	陶瓷电容器	AA
C472	VCCCPA1HH470J	J	47p	50V	Ceramic	陶瓷电容器	AA
C1302	VCEAGA1CW226M	J	22	16V	Electrolytic	电解电容器	AB
C1414	VCQYTA1HM472J	J	4700p	50V	Mylar	聚酯树脂电容器	AB
C1450	VCKYD41CY103N	J	0.01	16V	Ceramic	陶瓷电容器	AA

RESISTORS 电阻器

R310	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
R311	VRD-RA2HD681J	J	680	1/2W	Carbon	碳质电阻器	AA
R314	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
R315	VRD-RA2HD681J	J	680	1/2W	Carbon	碳质电阻器	AA
R318	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
R319	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
R320	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
R321	VRD-RA2BE472J	J	4.7k	1/8W	Carbon	碳质电阻器	AA
R447	VRD-RA2EE561J	J	560	1/4W	Carbon	碳质电阻器	AA
R448	VRD-RA2BE221J	J	220	1/8W	Carbon	碳质电阻器	AA
R449	VRD-RA2BE221J	J	220	1/8W	Carbon	碳质电阻器	AA
R450	VRD-RA2BE122J	J	1.2k	1/8W	Carbon	碳质电阻器	AA
R451	VRD-RA2BE331J	J	330	1/8W	Carbon	碳质电阻器	AA
R452	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R453	VRD-RA2BE332J	J	3.3k	1/8W	Carbon	碳质电阻器	AA
⚠ R454	VRG-RF2EB220J	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
R455	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R456	VRD-RA2HD391J	J	390	1/2W	Carbon	碳质电阻器	AA
R457	VRD-RA2BE331J	J	330	1/8W	Carbon	碳质电阻器	AA
R458	VRD-RA2HD561J	J	560	1/2W	Carbon	碳质电阻器	AA
⚠ R461	VRG-RF2EB220J	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
R462	VRD-RA2EE750J	J	75	1/4W	Carbon	碳质电阻器	AA
R464	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R465	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
⚠ R467	VRG-RF2EB220J	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
R468	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R469	VRD-RA2HD221J	J	220	1/2W	Carbon	碳质电阻器	AA
R470	VRD-RA2BE223J	J	22k	1/8W	Carbon	碳质电阻器	AA
R471	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R472	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R473	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R474	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R475	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PWM-A DUNTK7655DE01
A/V UNIT (Continued)

PWM-A DUNTK7655DE01
音频/视频装置板(接上页)

RESISTORS (Continued) 电阻器(接上页)

R476	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R477	VRD-RA2BE473J	J	47k	1/8W	Carbon	碳质电阻器	AA
R478	VRD-RA2BE103J	J	10k	1/8W	Carbon	碳质电阻器	AA
R485	VRG-RF2EB220J	J	22	1/4W	Fuse Resistor	电熔电阻器	AB
R490	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1304	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1305	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1312	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1313	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1322	VRD-RA2BE121J	J	120	1/8W	Carbon	碳质电阻器	AA
R1323	VRD-RA2BE121J	J	120	1/8W	Carbon	碳质电阻器	AA
R1434	VRD-RA2BE152J	J	1.5k	1/8W	Carbon	碳质电阻器	AA
R1435	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1436	VRD-RA2HD471J	J	470	1/2W	Carbon	碳质电阻器	AA
R1437	VRD-RA2BE100J	J	10	1/8W	Carbon	碳质电阻器	AA
R1450	VRD-RA2BE221J	J	220	1/8W	Carbon	碳质电阻器	AA
R1451	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA
R1452	VRD-RA2BE330J	J	33	1/8W	Carbon	碳质电阻器	AA
R1453	VRD-RA2BE330J	J	33	1/8W	Carbon	碳质电阻器	AA
R1454	VRD-RA2BE561J	J	560	1/8W	Carbon	碳质电阻器	AA
R1455	VRD-RA2HD561J	J	560	1/2W	Carbon	碳质电阻器	AA
R1456	VRD-RA2BE101J	J	100	1/8W	Carbon	碳质电阻器	AA

MISCELLANEOUS PARTS 其它零件

⚠	CACCZ2057CE02	J	AC Cord	交流电线	AM
	92PBAH110201A	J	Battery Cover, for Remote Controller	遥控器用电池盖	AE
	RSP-Z0066CEN1	J	Speaker (R)	扬声器(右)	AZ
	RSP-Z0067CEN1	J	Speaker (L)	扬声器(左)	AZ

REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

PACKING PARTS
(NOT REPLACEMENT ITEM)

包装部件
（非更换项目）

	SPAKC4423CEZZ	–	Packing Case	包装用纸箱	—
	SPAKX2323CEZZ	–	Buffer Material	防震泡沫塑料衬垫	—
	SPAKP0466CEZZ	–	Polyethylene Mat	聚苯乙烯底板	—
	SSAKA0160CEZZ	–	Polyethylene Bag	聚苯乙烯袋	—

SUPPLIED ACCESSORIES

提供附属品

ACCESSORIES

附属品

	RRMCG0840CESA	J	Infrared Remote Controller	红外线遥控器	AW

ACCESSORIES (*NOT REPLACEMENT ITEM*)

附属品(非更换项目)

	UBATU0023GEZZ	–	Dry Battery, Size AAA (2 pcs.)	干电池，尺寸AAA（2个）	—
	TiNS-4913CEZZ	–	Operation Manual	使用说明书	—
	TMAPC3842CEZZ	–	Service Map.	服务地图	—

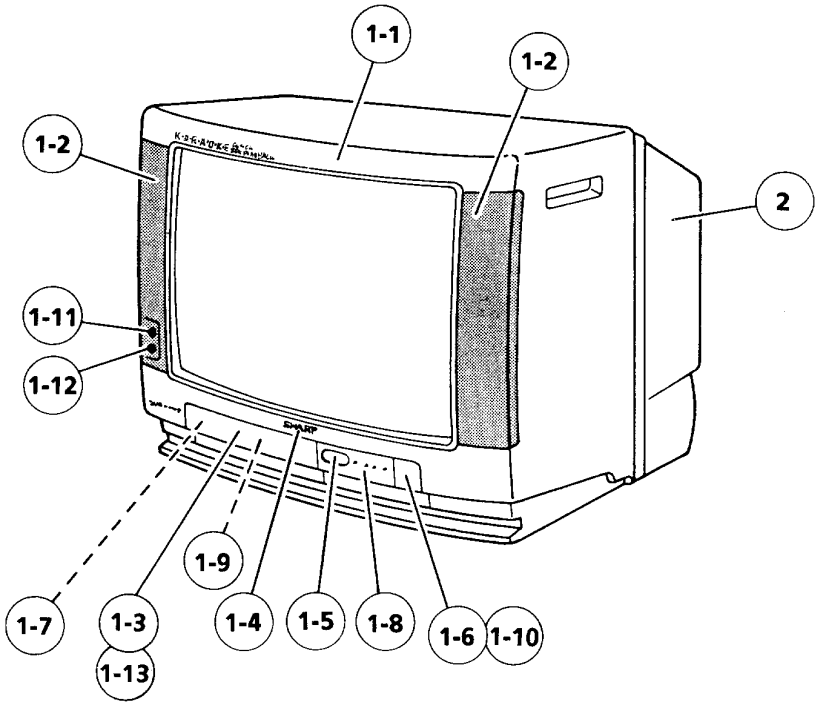
REF. NO. 参考编号	PART NO. 零件编号	★	DESCRIPTION	零件名称	CODE 代号

CABINET PARTS 机壳零件

1	CCABA1998CE01	J	Cabinet Ass'y, Front	前机壳整体	BR
1-1	Not Available	–	Cabinet, Front	前机壳	—
1-2	Not Available	–	Perforation Cover	穿孔盖	—
1-3	GDORF1902CESA	J	Door	门盖	AL
1-4	HBDGB3090CESA	J	Badge "SHARP"	"SHARP"标记	AG
1-5	HiNDP3863CESA	J	Indication Plate	指示板	AD
1-6	JBTN-1706CESA	J	Button, Power	电源键钮	AE
1-7	HiNDP3905CESA	J	Indication Plate, inside the door	指示板，门盖内部	AF
1-8	HDECQ0502CESA	J	Decoration Plate, LED	装饰板，发光二极管	AG
1-9	PKAi-1085CE00	J	Door Latch	门盖弹键钮	AD
1-10	MSPRC0061CEFW	J	Spring, Power Button	电源键钮弹簧	AA
1-11	HiNDP3903CESA	J	Mic-1 Indication Plate	麦克风-1指示板	AD
1-12	HiNDP3904CESA	J	Mic-2 Indication Plate	麦克风-2指示板	AD
1-13	HiNDP3906CEZZ	J	Indication Plate, reverse Side the door	指示板，门盖外部	AE
2	CCABB1958CE01	J	Cabinet Ass'y, Rear	后机壳整体	BF

CABINET PARTS LOCATION

机壳零件的定位布置图



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SHARP

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